

Sequence Listing

|         |                                                                                                                                                 |                                                                     |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1       | Sequence Listing Information                                                                                                                    |                                                                     |
| 1-1     | File Name                                                                                                                                       | Sequence listing.xml                                                |
| 1-2     | DTD Version                                                                                                                                     | V1_3                                                                |
| 1-3     | Software Name                                                                                                                                   | WIPO Sequence                                                       |
| 1-4     | Software Version                                                                                                                                | 2.3.0                                                               |
| 1-5     | Production Date                                                                                                                                 | 2024-07-19                                                          |
| 1-6     | Original free text language code                                                                                                                |                                                                     |
| 1-7     | Non English free text language code                                                                                                             | es                                                                  |
| 2       | General Information                                                                                                                             |                                                                     |
| 2-1     | Current application: IP Office                                                                                                                  | CU                                                                  |
| 2-2     | Current application: Application number                                                                                                         | 2022-0020                                                           |
| 2-3     | Current application: Filing date                                                                                                                | 2022-03-18                                                          |
| 2-4     | Current application: Applicant file reference                                                                                                   | 742022CU00                                                          |
| 2-5     | Earliest priority application: IP Office                                                                                                        | CU                                                                  |
| 2-6     | Earliest priority application: Application number                                                                                               | 2022-0020                                                           |
| 2-7     | Earliest priority application: Filing date                                                                                                      | 2022-03-18                                                          |
| 2-8es   | Applicant name                                                                                                                                  | CENTRO DE INMUNOLOGIA MOLECULAR                                     |
| 2-8     | Applicant name: Name Latin                                                                                                                      |                                                                     |
| 2-9es   | Inventor name                                                                                                                                   | ROJAS DORANTES, Gertrudis                                           |
| 2-9     | Inventor name: Name Latin                                                                                                                       | Gertrudis                                                           |
| 2-10en  | Invention title                                                                                                                                 | Human Interleukin-2-derived muteins with superagonist activity      |
| 2-11    | Sequence Total Quantity                                                                                                                         | 152                                                                 |
| 3-1     | Sequences                                                                                                                                       |                                                                     |
| 3-1-1   | Sequence Number [ID]                                                                                                                            | 1                                                                   |
| 3-1-2   | Molecule Type                                                                                                                                   | AA                                                                  |
| 3-1-3   | Length                                                                                                                                          | 133                                                                 |
| 3-1-4-1 | Features Location/Qualifiers                                                                                                                    | source 1..133<br>mol_type= protein<br>organism= synthetic construct |
|         | NonEnglishQualifier Value                                                                                                                       |                                                                     |
| 3-1-4-2 | Features Location/Qualifiers                                                                                                                    | VARIANT 81<br>note= Position 81 is occupied by R, H or K            |
|         | NonEnglishQualifier Value                                                                                                                       | note (es) : La posicion 81 esta ocupada por R, H o K                |
| 3-1-4-3 | Features Location/Qualifiers                                                                                                                    | VARIANT 83<br>note= Position 83 is occupied by D or E               |
|         | NonEnglishQualifier Value                                                                                                                       | note (es) : La posicion 83 esta ocupada por D o E                   |
| 3-1-4-4 | Features Location/Qualifiers                                                                                                                    | VARIANT 84<br>note= Position 84 is occupied by D or E               |
|         | NonEnglishQualifier Value                                                                                                                       | note (es) : La posicion 84 esta ocupada por D o E                   |
| 3-1-4-5 | Features Location/Qualifiers                                                                                                                    | VARIANT 87<br>note= Position 87 is occupied by D or E               |
|         | NonEnglishQualifier Value                                                                                                                       | note (es) : La posicion 87 esta ocupada por D o E                   |
| 3-1-4-6 | Features Location/Qualifiers                                                                                                                    | VARIANT 92<br>note= Position 92 is occupied by I or L               |
|         | NonEnglishQualifier Value                                                                                                                       | note (es) : La posicion 92 esta ocupada por I o L                   |
| 3-1-5   | Residues<br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEEELKPLEEVNLNAQSKNFHLRPDLISININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                     |
| 3-2     | Sequences                                                                                                                                       |                                                                     |
| 3-2-1   | Sequence Number [ID]                                                                                                                            | 2                                                                   |
| 3-2-2   | Molecule Type                                                                                                                                   | AA                                                                  |
| 3-2-3   | Length                                                                                                                                          | 133                                                                 |

|         |                                                                                                                                                    |                                                                                                                                                                                                  |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-2-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-2-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-2-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 83<br>note= Position 83 is occupied by R, H o K<br><b>note (es)</b> : La posicion 81 esta ocupada por R, H o K                                                                    |
| 3-2-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
| 3-2-4-5 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-2-4-6 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-2-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLQAQSNFHLRPRLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-3     | <b>Sequences</b>                                                                                                                                   |                                                                                                                                                                                                  |
| 3-3-1   | Sequence Number [ID]                                                                                                                               | 3                                                                                                                                                                                                |
| 3-3-2   | Molecule Type                                                                                                                                      | AA                                                                                                                                                                                               |
| 3-3-3   | Length                                                                                                                                             | 133                                                                                                                                                                                              |
| 3-3-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-3-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-3-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-3-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 84<br>note= Positon 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                          |
| 3-3-4-5 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-3-4-6 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-3-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLQAQSNFHLRPRLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-4     | <b>Sequences</b>                                                                                                                                   |                                                                                                                                                                                                  |
| 3-4-1   | Sequence Number [ID]                                                                                                                               | 4                                                                                                                                                                                                |
| 3-4-2   | Molecule Type                                                                                                                                      | AA                                                                                                                                                                                               |
| 3-4-3   | Length                                                                                                                                             | 133                                                                                                                                                                                              |
| 3-4-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-4-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E<br><b>VARIANT</b> 83                                                    |

|         |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| 3-4-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y<br><b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E<br><b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posición 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y<br><b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                                                                                                  |
| 3-4-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-4-4-5 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-4-4-6 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-4-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYPKPTRMLTFKFYMPKKATELKHLCLEEELKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-5     | <b>Sequences</b>                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-5-1   | Sequence Number [ID]                                                                                                                                | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3-5-2   | Molecule Type                                                                                                                                       | AA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3-5-3   | Length                                                                                                                                              | 133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3-5-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3-5-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y<br><b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E<br><b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E<br><b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y<br><b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L |
| 3-5-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-5-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-5-4-5 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-5-4-6 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-5-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYPKPTRMLTFKFYMPKKATELKHLCLEEELKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-6     | <b>Sequences</b>                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-6-1   | Sequence Number [ID]                                                                                                                                | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3-6-2   | Molecule Type                                                                                                                                       | AA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3-6-3   | Length                                                                                                                                              | 133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3-6-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3-6-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E<br><b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupad por D o E<br><b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y<br><b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y                                                                                                                                                                                                                              |
| 3-6-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-6-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3-6-4-5 | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|            |                                                                                                                                                     |                                                                                                  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 87 esta coupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-6-4-6    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occued by I or L                                       |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-6-5      | <b>Residues</b><br>APTSSTTKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-7</b> | <b>Sequences</b>                                                                                                                                    |                                                                                                  |
| 3-7-1      | Sequence Number [ID]                                                                                                                                | 7                                                                                                |
| 3-7-2      | Molecule Type                                                                                                                                       | AA                                                                                               |
| 3-7-3      | Length                                                                                                                                              | 133                                                                                              |
| 3-7-4-1    | Features Location/Qualifiers                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|            | NonEnglishQualifier Value                                                                                                                           |                                                                                                  |
| 3-7-4-2    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-7-4-3    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-7-4-4    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-7-4-5    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 87 esta ocupada pro D o E                                         |
| 3-7-4-6    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-7-5      | <b>Residues</b><br>APTSSTTKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-8</b> | <b>Sequences</b>                                                                                                                                    |                                                                                                  |
| 3-8-1      | Sequence Number [ID]                                                                                                                                | 8                                                                                                |
| 3-8-2      | Molecule Type                                                                                                                                       | AA                                                                                               |
| 3-8-3      | Length                                                                                                                                              | 133                                                                                              |
| 3-8-4-1    | Features Location/Qualifiers                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|            | NonEnglishQualifier Value                                                                                                                           |                                                                                                  |
| 3-8-4-2    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-8-4-3    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 83 esta ocupad por D o E                                          |
| 3-8-4-4    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-8-4-5    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-8-4-6    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|            | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-8-5      | <b>Residues</b><br>APTSSTTKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-9</b> | <b>Sequences</b>                                                                                                                                    |                                                                                                  |
| 3-9-1      | Sequence Number [ID]                                                                                                                                | 9                                                                                                |

|             |                                                                                                                                                     |                                                                                                  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 3-9-2       | Molecule Type                                                                                                                                       | AA                                                                                               |
| 3-9-3       | Length                                                                                                                                              | 133                                                                                              |
| 3-9-4-1     | Features Location/Qualifiers                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                  |
| 3-9-4-2     | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-9-4-3     | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-9-4-4     | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 84 esta ocupada por D or E                                        |
| 3-9-4-5     | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-9-4-6     | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-9-5       | <b>Residues</b><br>APTSSTKKTLQLLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-10</b> | <b>Sequences</b>                                                                                                                                    |                                                                                                  |
| 3-10-1      | Sequence Number [ID]                                                                                                                                | 10                                                                                               |
| 3-10-2      | Molecule Type                                                                                                                                       | AA                                                                                               |
| 3-10-3      | Length                                                                                                                                              | 133                                                                                              |
| 3-10-4-1    | Features Location/Qualifiers                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                  |
| 3-10-4-2    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-10-4-3    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-10-4-4    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-10-4-5    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-10-4-6    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 92 esta ocupad por I o L                                          |
| 3-10-5      | <b>Residues</b><br>APTSSTKKTLQLLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-11</b> | <b>Sequences</b>                                                                                                                                    |                                                                                                  |
| 3-11-1      | Sequence Number [ID]                                                                                                                                | 11                                                                                               |
| 3-11-2      | Molecule Type                                                                                                                                       | AA                                                                                               |
| 3-11-3      | Length                                                                                                                                              | 133                                                                                              |
| 3-11-4-1    | Features Location/Qualifiers                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                  |
| 3-11-4-2    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |

|             |                                                                                                                                                     |                                                                                                  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-11-4-3    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-11-4-4    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S,T , V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S,T , V, W o Y     |
| 3-11-4-5    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 92 esta ocupada pro I o L                                         |
| 3-11-4-6    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-11-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEEELKPLEEVNLNAQSKNFHLRPRDLISNNIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-12</b> | <b>Sequences</b>                                                                                                                                    |                                                                                                  |
| 3-12-1      | Sequence Number [ID]                                                                                                                                | 12                                                                                               |
| 3-12-2      | Molecule Type                                                                                                                                       | AA                                                                                               |
| 3-12-3      | Length                                                                                                                                              | 133                                                                                              |
| 3-12-4-1    | Features Location/Qualifiers                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                  |
| 3-12-4-2    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-12-4-3    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-12-4-4    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 84<br>note= Positon 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y  |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 84 esta ocupada A, N, G, Q, I, L, M, F, P, S, T, V, W or Y        |
| 3-12-4-5    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-12-4-6    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-12-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEEELKPLEEVNLNAQSKNFHLRPRDLISNNIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-13</b> | <b>Sequences</b>                                                                                                                                    |                                                                                                  |
| 3-13-1      | Sequence Number [ID]                                                                                                                                | 13                                                                                               |
| 3-13-2      | Molecule Type                                                                                                                                       | AA                                                                                               |
| 3-13-3      | Length                                                                                                                                              | 133                                                                                              |
| 3-13-4-1    | Features Location/Qualifiers                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                  |
| 3-13-4-2    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-13-4-3    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-13-4-4    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                           | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |

|             |                                                                                                                                                        |                                                                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 3-13-4-5    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-13-4-6    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-13-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLQAQSKNFHLRPDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT |                                                                                                                                            |
| <b>3-14</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                            |
| 3-14-1      | Sequence Number [ID]                                                                                                                                   | 14                                                                                                                                         |
| 3-14-2      | Molecule Type                                                                                                                                          | AA                                                                                                                                         |
| 3-14-3      | Length                                                                                                                                                 | 133                                                                                                                                        |
| 3-14-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                 |
| 3-14-4-2    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by R, H or K<br><b>note (es)</b> : La posicion 81 esta ocupada por R, H o K             |
| 3-14-4-3    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                   |
| 3-14-4-4    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 está ocupada por D o E                   |
| 3-14-4-5    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-14-4-6    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-14-4-7    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V |
| 3-14-4-8    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                   |
| 3-14-4-9    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V      |
| 3-14-4-10   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                   |
| 3-14-4-11   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M             |
| 3-14-4-12   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V             |
| 3-14-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLQAQSKNFHLRPDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT |                                                                                                                                            |
| <b>3-15</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                            |
| 3-15-1      | Sequence Number [ID]                                                                                                                                   | 15                                                                                                                                         |
| 3-15-2      | Molecule Type                                                                                                                                          | AA                                                                                                                                         |
| 3-15-3      | Length                                                                                                                                                 | 133                                                                                                                                        |
| 3-15-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                 |

|             |                                                                                                                                                     |                                                                                                                                                                                                  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-2    | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-3    | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-4    | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-5    | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-6    | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-7    | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-8    | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-9    | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-10   | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-11   | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-4-12   | Features Location/Qualifiers                                                                                                                        |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-15-5      | <b>Residues</b><br>APTSSTKKTQLQLLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-16</b> | <b>Sequences</b>                                                                                                                                    |                                                                                                                                                                                                  |
| 3-16-1      | Sequence Number [ID]                                                                                                                                | 16                                                                                                                                                                                               |
| 3-16-2      | Molecule Type                                                                                                                                       | AA                                                                                                                                                                                               |
| 3-16-3      | Length                                                                                                                                              | 133                                                                                                                                                                                              |
| 3-16-4-1    | Features Location/Qualifiers                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-16-4-2    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-16-4-3    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-16-4-4    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-16-4-5    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                           |                                                                                                                                                                                                  |
| 3-16-4-6    | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                                                                                                                            |

|             |                                                                                                                                                        |                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-16-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-16-4-8    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-16-4-9    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-16-4-10   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-16-4-11   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-16-4-12   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-16-5      | <b>Residues</b><br>APTSSTTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLLEEVLNLAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-17</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-17-1      | Sequence Number [ID]                                                                                                                                   | 17                                                                                               |
| 3-17-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-17-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-17-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-17-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-17-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-17-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-17-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W o Y  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-17-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-17-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-17-4-8    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-17-4-9    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-17-4-10   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-17-4-11   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |

|             |                                                                                                                                                        |                                                                                                  |
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|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-17-4-12   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-17-5      | <b>Residues</b><br>APTSSSTKKTKQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-18</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-18-1      | Sequence Number [ID]                                                                                                                                   | 18                                                                                               |
| 3-18-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-18-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-18-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-18-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W or Y    |
| 3-18-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-18-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-18-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posocion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-18-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-18-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-18-4-8    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-18-4-9    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-18-4-10   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-18-4-11   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-18-4-12   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-18-5      | <b>Residues</b><br>APTSSSTKKTKQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-19</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-19-1      | Sequence Number [ID]                                                                                                                                   | 19                                                                                               |
| 3-19-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-19-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-19-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |

|           |                                                                                                                                                       |                                                                                                                                                                                                   |
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| 3-19-4-2  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                          |
| 3-19-4-3  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                          |
| 3-19-4-4  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y  |
| 3-19-4-5  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y  |
| 3-19-4-6  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                        |
| 3-19-4-7  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                          |
| 3-19-4-8  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                             |
| 3-19-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                          |
| 3-19-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                    |
| 3-19-4-11 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                    |
| 3-19-4-12 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                          |
| 3-19-5    | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVNLAQSKNFHLRPDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT |                                                                                                                                                                                                   |
| 3-20      | <b>Sequences</b>                                                                                                                                      |                                                                                                                                                                                                   |
| 3-20-1    | Sequence Number [ID]                                                                                                                                  | 20                                                                                                                                                                                                |
| 3-20-2    | Molecule Type                                                                                                                                         | AA                                                                                                                                                                                                |
| 3-20-3    | Length                                                                                                                                                | 133                                                                                                                                                                                               |
| 3-20-4-1  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                        |
| 3-20-4-2  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                          |
| 3-20-4-3  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
| 3-20-4-4  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
| 3-20-4-5  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                          |
| 3-20-4-6  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                        |

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| 3-20-4-7  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
| 3-20-4-8  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
| 3-20-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
| 3-20-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
| 3-20-4-11 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
| 3-20-4-12 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-20-5    | <b>Residues</b><br>APTSSTKKTQLQLHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-21      | <b>Sequences</b>                                                                                                                                  |                                                                                                                                                                                                  |
| 3-21-1    | Sequence Number [ID]                                                                                                                              | 21                                                                                                                                                                                               |
| 3-21-2    | Molecule Type                                                                                                                                     | AA                                                                                                                                                                                               |
| 3-21-3    | Length                                                                                                                                            | 133                                                                                                                                                                                              |
| 3-21-4-1  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-21-4-2  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-21-4-3  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicin 83 esta ocupada por D o E                                                                          |
| 3-21-4-4  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-21-4-5  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-21-4-6  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
| 3-21-4-7  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
| 3-21-4-8  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
| 3-21-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
| 3-21-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
| 3-21-4-11 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                     | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |

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| 3-21-4-12   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-21-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-22</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                  |
| 3-22-1      | Sequence Number [ID]                                                                                                                                 | 22                                                                                               |
| 3-22-2      | Molecule Type                                                                                                                                        | AA                                                                                               |
| 3-22-3      | Length                                                                                                                                               | 133                                                                                              |
| 3-22-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                  |
| 3-22-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-22-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-22-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupoed by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-22-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-22-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-22-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-22-4-8    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-22-4-9    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-22-4-10   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-22-4-11   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-22-4-12   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-22-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-23</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                  |
| 3-23-1      | Sequence Number [ID]                                                                                                                                 | 23                                                                                               |
| 3-23-2      | Molecule Type                                                                                                                                        | AA                                                                                               |
| 3-23-3      | Length                                                                                                                                               | 133                                                                                              |
| 3-23-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                  |
| 3-23-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |

|             |                                                                                                                                                         |                                                                                                  |
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|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-23-4-3    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-23-4-4    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posocion 84 esta ocupada por D o E                                         |
| 3-23-4-5    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion esta ocupada por D o E                                            |
| 3-23-4-6    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-23-4-7    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-23-4-8    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-23-4-9    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-23-4-10   | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-23-4-11   | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-23-4-12   | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-23-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLOCLEEELKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSOSIISTLT |                                                                                                  |
| <b>3-24</b> | <b>Sequences</b>                                                                                                                                        |                                                                                                  |
| 3-24-1      | Sequence Number [ID]                                                                                                                                    | 24                                                                                               |
| 3-24-2      | Molecule Type                                                                                                                                           | AA                                                                                               |
| 3-24-3      | Length                                                                                                                                                  | 133                                                                                              |
| 3-24-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                                                  |
| 3-24-4-2    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-24-4-3    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-24-4-4    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-24-4-5    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicin 81 esta ocupada por D o E                                          |
| 3-24-4-6    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|             | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-24-4-7    | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 82                                                                                |

|             |                                                                                                                                                        |                                                                                                                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                              | note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                                              |
| 3-24-4-8    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-24-4-9    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-24-4-10   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-24-4-11   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-24-4-12   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-24-5      | <b>Residues</b><br>APTSSTTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVLNLAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-25</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                                                                                  |
| 3-25-1      | Sequence Number [ID]                                                                                                                                   | 25                                                                                                                                                                                               |
| 3-25-2      | Molecule Type                                                                                                                                          | AA                                                                                                                                                                                               |
| 3-25-3      | Length                                                                                                                                                 | 133                                                                                                                                                                                              |
| 3-25-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-8    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-9    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-10   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-25-4-11   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |

|             |                                                                                                                                                      |                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3-25-4-12   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-25-5      | <b>Residues</b><br>APTSSTSKTKTLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-26</b> | <b>Sequences</b>                                                                                                                                     |                                                                            |
| 3-26-1      | Sequence Number [ID]                                                                                                                                 | 26                                                                         |
| 3-26-2      | Molecule Type                                                                                                                                        | AA                                                                         |
| 3-26-3      | Length                                                                                                                                               | 133                                                                        |
| 3-26-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                            |
| 3-26-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La poisicoin 81 esta ocupada por D o E                  |
| 3-26-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                   |
| 3-26-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : L aposicion 84 esta ocupada por D o E                   |
| 3-26-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 87 esta ocupad por D o E                    |
| 3-26-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V      |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V          |
| 3-26-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                   |
| 3-26-4-8    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V         |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V            |
| 3-26-4-9    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                   |
| 3-26-4-10   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M            |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                |
| 3-26-4-11   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V            |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                |
| 3-26-4-12   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-26-5      | <b>Residues</b><br>APTSSTSKTKTLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-27</b> | <b>Sequences</b>                                                                                                                                     |                                                                            |
| 3-27-1      | Sequence Number [ID]                                                                                                                                 | 27                                                                         |
| 3-27-2      | Molecule Type                                                                                                                                        | AA                                                                         |
| 3-27-3      | Length                                                                                                                                               | 133                                                                        |
| 3-27-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                            |
| 3-27-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by H,K or R             |

|             |                                                                                                                                                        |                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 80 esta ocupada por H,K o R                                       |
| 3-27-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-27-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-27-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-27-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-27-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-27-5      | <b>Residues</b><br>APTSSSTKKTKLQLEHLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEEAKPLEEVNLQAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT |                                                                                                  |
| <b>3-28</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-28-1      | Sequence Number [ID]                                                                                                                                   | 28                                                                                               |
| 3-28-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-28-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-28-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-28-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-28-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by H,K or R                                   |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por H,K o R                                       |
| 3-28-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-28-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-28-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-28-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-28-5      | <b>Residues</b><br>APTSSSTKKTKLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEEEKPLEEVNLQAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT  |                                                                                                  |
| <b>3-29</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-29-1      | Sequence Number [ID]                                                                                                                                   | 29                                                                                               |
| 3-29-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-29-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-29-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-29-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |

|          |                                                                                                                                                     |                                                                                                                                                                                                  |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-29-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-29-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
| 3-29-4-5 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-29-4-6 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-29-4-7 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
| 3-29-5   | <b>Residues</b><br>APTSSTTKKTQLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-30     | <b>Sequences</b>                                                                                                                                    |                                                                                                                                                                                                  |
| 3-30-1   | Sequence Number [ID]                                                                                                                                | 30                                                                                                                                                                                               |
| 3-30-2   | Molecule Type                                                                                                                                       | AA                                                                                                                                                                                               |
| 3-30-3   | Length                                                                                                                                              | 133                                                                                                                                                                                              |
| 3-30-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-30-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-30-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-30-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
| 3-30-4-5 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-30-4-6 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-30-4-7 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
| 3-30-5   | <b>Residues</b><br>APTSSTTKKTQLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-31     | <b>Sequences</b>                                                                                                                                    |                                                                                                                                                                                                  |
| 3-31-1   | Sequence Number [ID]                                                                                                                                | 31                                                                                                                                                                                               |
| 3-31-2   | Molecule Type                                                                                                                                       | AA                                                                                                                                                                                               |
| 3-31-3   | Length                                                                                                                                              | 133                                                                                                                                                                                              |
| 3-31-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-31-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                       | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-31-4-3 | Features Location/Qualifiers                                                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                                                                                                                     |

|             |                                                                                                                                                       |                                                                                                  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-31-4-4    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-31-4-5    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-31-4-6    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-31-4-7    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-31-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-32</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                  |
| 3-32-1      | Sequence Number [ID]                                                                                                                                  | 32                                                                                               |
| 3-32-2      | Molecule Type                                                                                                                                         | AA                                                                                               |
| 3-32-3      | Length                                                                                                                                                | 133                                                                                              |
| 3-32-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                                                  |
| 3-32-4-2    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-32-4-3    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-32-4-4    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-32-4-5    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-32-4-6    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-32-4-7    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-32-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-33</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                  |
| 3-33-1      | Sequence Number [ID]                                                                                                                                  | 33                                                                                               |
| 3-33-2      | Molecule Type                                                                                                                                         | AA                                                                                               |
| 3-33-3      | Length                                                                                                                                                | 133                                                                                              |
| 3-33-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                                                  |
| 3-33-4-2    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-33-4-3    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |

|             |                                                                                                                                                      |                                                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-33-4-4    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-33-4-5    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-33-4-6    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-33-4-7    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
| 3-33-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-34</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                                                                                                                  |
| 3-34-1      | Sequence Number [ID]                                                                                                                                 | 34                                                                                                                                                                                               |
| 3-34-2      | Molecule Type                                                                                                                                        | AA                                                                                                                                                                                               |
| 3-34-3      | Length                                                                                                                                               | 133                                                                                                                                                                                              |
| 3-34-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-34-4-2    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-34-4-3    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
| 3-34-4-4    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-34-4-5    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-34-4-6    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-34-4-7    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
| 3-34-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-35</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                                                                                                                  |
| 3-35-1      | Sequence Number [ID]                                                                                                                                 | 35                                                                                                                                                                                               |
| 3-35-2      | Molecule Type                                                                                                                                        | AA                                                                                                                                                                                               |
| 3-35-3      | Length                                                                                                                                               | 133                                                                                                                                                                                              |
| 3-35-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-35-4-2    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-35-4-3    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-35-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                                                                                                                     |

|             |                                                                                                                                                        |                                                                                                  |
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|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-35-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-35-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-35-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-35-5      | <b>Residues</b><br>APTSSTTKKTQLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-36</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-36-1      | Sequence Number [ID]                                                                                                                                   | 36                                                                                               |
| 3-36-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-36-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-36-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-36-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-36-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-36-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-36-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-36-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-36-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-36-4-8    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-36-5      | <b>Residues</b><br>APTSSTTKKTQLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-37</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-37-1      | Sequence Number [ID]                                                                                                                                   | 37                                                                                               |
| 3-37-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-37-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-37-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-37-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-37-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |

|          |                                                                                                                                                      |                                                                                                                                                                                                  |
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| 3-37-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
| 3-37-4-5 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-37-4-6 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-37-4-7 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
| 3-37-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-38     | <b>Sequences</b>                                                                                                                                     |                                                                                                                                                                                                  |
| 3-38-1   | Sequence Number [ID]                                                                                                                                 | 38                                                                                                                                                                                               |
| 3-38-2   | Molecule Type                                                                                                                                        | AA                                                                                                                                                                                               |
| 3-38-3   | Length                                                                                                                                               | 133                                                                                                                                                                                              |
| 3-38-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-38-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-38-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
| 3-38-4-4 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-38-4-5 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-38-4-6 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-38-4-7 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
| 3-38-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-39     | <b>Sequences</b>                                                                                                                                     |                                                                                                                                                                                                  |
| 3-39-1   | Sequence Number [ID]                                                                                                                                 | 39                                                                                                                                                                                               |
| 3-39-2   | Molecule Type                                                                                                                                        | AA                                                                                                                                                                                               |
| 3-39-3   | Length                                                                                                                                               | 133                                                                                                                                                                                              |
| 3-39-4-1 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-39-4-2 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-39-4-3 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                        | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
| 3-39-4-4 | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                                                                                                                     |

|             |                                                                                                                                                    |                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                   |
| 3-39-4-5    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 87<br>note= Position 84 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                   |
| 3-39-4-6    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-39-4-7    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q            |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                |
| 3-39-4-8    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-39-5      | <b>Residues</b><br>APTSSTKKTQLQLHLDDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-40</b> | <b>Sequences</b>                                                                                                                                   |                                                                            |
| 3-40-1      | Sequence Number [ID]                                                                                                                               | 40                                                                         |
| 3-40-2      | Molecule Type                                                                                                                                      | AA                                                                         |
| 3-40-3      | Length                                                                                                                                             | 133                                                                        |
| 3-40-4-1    | Features Location/Qualifiers                                                                                                                       | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                            |
| 3-40-4-2    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 81<br>note= Position 81 is occupied by H,K or R             |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 81 esta ocupada por H,K o R                 |
| 3-40-4-3    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                   |
| 3-40-4-4    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                   |
| 3-40-4-5    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-40-4-6    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 80<br>note= Position 80 is occupied by L, F, M, V or I      |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 80 esta ocupada por L, F, M, V o I          |
| 3-40-4-7    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 82<br>note= Position 82 is occupied by P or A               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 82 esta ocupada por P o A                   |
| 3-40-4-8    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 85<br>note= Position 85 is occupied by L. I, V or M         |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 85 esta ocupada por L, I, V, M              |
| 3-40-4-9    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                   |
| 3-40-4-10   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M            |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                |
| 3-40-4-11   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L               |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-40-4-12   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V            |
|             | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                |
| 3-40-4-13   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q            |

|             |                                                                                                                                                      |                                                                            |
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|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                |
| 3-40-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-41</b> | <b>Sequences</b>                                                                                                                                     |                                                                            |
| 3-41-1      | Sequence Number [ID]                                                                                                                                 | 41                                                                         |
| 3-41-2      | Molecule Type                                                                                                                                        | AA                                                                         |
| 3-41-3      | Length                                                                                                                                               | 133                                                                        |
| 3-41-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                            |
| 3-41-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                   |
| 3-41-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by H,K or R             |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 83 esta ocupada por H,K o R                 |
| 3-41-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                   |
| 3-41-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-41-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V      |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V          |
| 3-41-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                   |
| 3-41-4-8    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V         |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V            |
| 3-41-4-9    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                   |
| 3-41-4-10   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M            |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                |
| 3-41-4-11   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L               |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-41-4-12   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V            |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                |
| 3-41-4-13   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q            |
|             | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                |
| 3-41-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-42</b> | <b>Sequences</b>                                                                                                                                     |                                                                            |
| 3-42-1      | Sequence Number [ID]                                                                                                                                 | 42                                                                         |
| 3-42-2      | Molecule Type                                                                                                                                        | AA                                                                         |
| 3-42-3      | Length                                                                                                                                               | 133                                                                        |
| 3-42-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                            |

|           |                                                                                                                                                       |                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-42-4-2  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y                                |
| 3-42-4-3  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y                                |
| 3-42-4-4  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                                                        |
| 3-42-4-5  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                                                        |
| 3-42-4-6  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                                                      |
| 3-42-4-7  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                                                        |
| 3-42-4-8  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                                                           |
| 3-42-4-9  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                                                        |
| 3-42-4-10 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                                                  |
| 3-42-4-11 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                                                        |
| 3-42-4-12 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                                                  |
| 3-42-4-13 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                                                  |
| 3-42-5    | <b>Residues</b><br>APTSSTTKKTQLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVNLNAQSKNFHLRPDLISINIVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT |                                                                                                                                                                                                                                 |
| 3-43      | <b>Sequences</b>                                                                                                                                      |                                                                                                                                                                                                                                 |
| 3-43-1    | Sequence Number [ID]                                                                                                                                  | 43                                                                                                                                                                                                                              |
| 3-43-2    | Molecule Type                                                                                                                                         | AA                                                                                                                                                                                                                              |
| 3-43-3    | Length                                                                                                                                                | 133                                                                                                                                                                                                                             |
| 3-43-4-1  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                                                      |
| 3-43-4-2  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E |
| 3-43-4-3  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y                                |
| 3-43-4-4  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                             | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                                                        |
| 3-43-4-5  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87                                                                                                                                                                                                               |

|             |                                                                                                                                                      |                                                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                            | note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y                      |
| 3-43-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-43-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-43-4-8    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-43-4-9    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-43-4-10   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-43-4-11   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-43-4-12   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-43-4-13   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-43-5      | <b>Residues</b><br>APTSSTKTKTLQLLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINVTIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSISTLT |                                                                                                                                                                                                  |
| <b>3-44</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                                                                                                                  |
| 3-44-1      | Sequence Number [ID]                                                                                                                                 | 44                                                                                                                                                                                               |
| 3-44-2      | Molecule Type                                                                                                                                        | AA                                                                                                                                                                                               |
| 3-44-3      | Length                                                                                                                                               | 133                                                                                                                                                                                              |
| 3-44-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-44-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-44-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-44-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-44-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-44-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-44-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-44-4-8    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
|             | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |

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|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-44-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
| 3-44-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
| 3-44-4-11 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-44-4-12 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
| 3-44-4-13 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
| 3-44-5    | <b>Residues</b><br>APTSSTTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLOCLEELKPLEEVNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-45      | <b>Sequences</b>                                                                                                                                      |                                                                                                                                                                                                  |
| 3-45-1    | Sequence Number [ID]                                                                                                                                  | 45                                                                                                                                                                                               |
| 3-45-2    | Molecule Type                                                                                                                                         | AA                                                                                                                                                                                               |
| 3-45-3    | Length                                                                                                                                                | 133                                                                                                                                                                                              |
| 3-45-4-1  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-45-4-2  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-45-4-3  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
| 3-45-4-4  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-45-4-5  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-45-4-6  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
| 3-45-4-7  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
| 3-45-4-8  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
| 3-45-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
| 3-45-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
| 3-45-4-11 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-45-4-12 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |

|             |                                                                                                                                                       |                                                                                                  |
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| 3-45-4-13   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-45-5      | <b>Residues</b><br>APTSSTTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-46</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                  |
| 3-46-1      | Sequence Number [ID]                                                                                                                                  | 46                                                                                               |
| 3-46-2      | Molecule Type                                                                                                                                         | AA                                                                                               |
| 3-46-3      | Length                                                                                                                                                | 133                                                                                              |
| 3-46-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                                                  |
| 3-46-4-2    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-46-4-3    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-46-4-4    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-46-4-5    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-46-4-6    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-46-4-7    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-46-4-8    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-46-4-9    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-46-4-10   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-46-4-11   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-46-4-12   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-46-4-13   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-46-5      | <b>Residues</b><br>APTSSTTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-47</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                  |
| 3-47-1      | Sequence Number [ID]                                                                                                                                  | 47                                                                                               |
| 3-47-2      | Molecule Type                                                                                                                                         | AA                                                                                               |
| 3-47-3      | Length                                                                                                                                                | 133                                                                                              |
| 3-47-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |

|             |                                                                                                                                                        |                                                                                                                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-8    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-9    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-10   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-11   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-12   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-4-13   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-47-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVLNLAQSKNFHLRPDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-48</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                                                                                  |
| 3-48-1      | Sequence Number [ID]                                                                                                                                   | 48                                                                                                                                                                                               |
| 3-48-2      | Molecule Type                                                                                                                                          | AA                                                                                                                                                                                               |
| 3-48-3      | Length                                                                                                                                                 | 133                                                                                                                                                                                              |
|             |                                                                                                                                                        | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-48-4-1    | Features Location/Qualifiers                                                                                                                           |                                                                                                                                                                                                  |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-48-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-48-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-48-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                                                                                  |
| 3-48-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                                                                                                                            |

|             |                                                                                                                                                       |                                                                                                  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-48-4-6    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-48-4-7    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-48-4-8    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-48-4-9    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-48-4-10   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-48-4-11   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-48-4-12   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                  |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                      |
| 3-48-4-13   | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-48-5      | <b>Residues</b><br>APTSSTTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-49</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                  |
| 3-49-1      | Sequence Number [ID]                                                                                                                                  | 49                                                                                               |
| 3-49-2      | Molecule Type                                                                                                                                         | AA                                                                                               |
| 3-49-3      | Length                                                                                                                                                | 133                                                                                              |
| 3-49-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                                                  |
| 3-49-4-2    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-49-4-3    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-49-4-4    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-49-4-5    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-49-4-6    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-49-4-7    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-49-4-8    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|             | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-49-4-9    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 86                                                                                |

|             |                                                                                                                                                    |                                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | NonEnglishQualifier Value                                                                                                                          | note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                                              |
| 3-49-4-10   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-49-4-11   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-49-4-12   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-49-4-13   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-49-5      | <b>Residues</b><br>APTSSSTKKTLQLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-50</b> | <b>Sequences</b>                                                                                                                                   |                                                                                                                                                                                                  |
| 3-50-1      | Sequence Number [ID]                                                                                                                               | 50                                                                                                                                                                                               |
| 3-50-2      | Molecule Type                                                                                                                                      | AA                                                                                                                                                                                               |
| 3-50-3      | Length                                                                                                                                             | 133                                                                                                                                                                                              |
| 3-50-4-1    | Features Location/Qualifiers                                                                                                                       | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-2    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-3    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-4    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-5    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-6    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-7    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-8    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-9    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-10   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-11   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |
| 3-50-4-12   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
|             | NonEnglishQualifier Value                                                                                                                          |                                                                                                                                                                                                  |

|             |                                                                                                                                                                                                                       |                                                                                                                               |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 3-50-4-13   | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q                                                               |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q                                                                   |
| 3-50-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLDLQMI <del>NG</del> INNYKNPKLTRMLTFKFYMPKKATELKH <del>LQ</del> CLEEELKPLEEV <del>LN</del> LAQSKNFHLRP <del>DL</del> ISNIN <del>VIV</del> LELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                               |
| <b>3-51</b> | <b>Sequences</b>                                                                                                                                                                                                      |                                                                                                                               |
| 3-51-1      | Sequence Number [ID]                                                                                                                                                                                                  | 51                                                                                                                            |
| 3-51-2      | Molecule Type                                                                                                                                                                                                         | AA                                                                                                                            |
| 3-51-3      | Length                                                                                                                                                                                                                | 133                                                                                                                           |
| 3-51-4-1    | Features Location/Qualifiers                                                                                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                    |
|             | NonEnglishQualifier Value                                                                                                                                                                                             |                                                                                                                               |
| 3-51-4-2    | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                                                  |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                      |
| 3-51-4-3    | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 84 is occupied by D or E                                                                  |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                      |
| 3-51-4-4    | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y                              |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y                                  |
| 3-51-4-5    | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                                                  |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                      |
| 3-51-4-6    | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                                                         |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                             |
| 3-51-4-7    | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                                                  |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                      |
| 3-51-4-8    | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                                                            |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                               |
| 3-51-4-9    | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                                                  |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                      |
| 3-51-4-10   | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                                               |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
| 3-51-4-11   | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                                                  |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                      |
| 3-51-4-12   | Features Location/Qualifiers                                                                                                                                                                                          | <b>VARIANT</b> 93<br>note= Position 35 is occupied by D, E or Q<br>note= Position 93 is occupied by I, L or V                 |
|             | NonEnglishQualifier Value                                                                                                                                                                                             | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V |
| 3-51-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLDLQMI <del>NG</del> INNYKNPKLTRMLTFKFYMPKKATELKH <del>LQ</del> CLEEELKPLEEV <del>LN</del> LAQSKNFHLRP <del>DL</del> ISNIN <del>VIV</del> LELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                               |
| <b>3-52</b> | <b>Sequences</b>                                                                                                                                                                                                      |                                                                                                                               |
| 3-52-1      | Sequence Number [ID]                                                                                                                                                                                                  | 52                                                                                                                            |
| 3-52-2      | Molecule Type                                                                                                                                                                                                         | AA                                                                                                                            |
| 3-52-3      | Length                                                                                                                                                                                                                | 133                                                                                                                           |
| 3-52-4-1    | Features Location/Qualifiers                                                                                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                    |
|             | NonEnglishQualifier Value                                                                                                                                                                                             |                                                                                                                               |

|           |                                                                                                                                                         |                                                                                                                                            |
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| 3-52-4-2  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                   |
| 3-52-4-3  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                   |
| 3-52-4-4  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                   |
| 3-52-4-5  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-52-4-6  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V |
| 3-52-4-7  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                   |
| 3-52-4-8  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V      |
| 3-52-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                   |
| 3-52-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M             |
| 3-52-4-11 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-52-4-12 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V             |
| 3-52-4-13 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por D, E o Q             |
| 3-52-5    | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT |                                                                                                                                            |
| 3-53      | <b>Sequences</b>                                                                                                                                        |                                                                                                                                            |
| 3-53-1    | Sequence Number [ID]                                                                                                                                    | 53                                                                                                                                         |
| 3-53-2    | Molecule Type                                                                                                                                           | AA                                                                                                                                         |
| 3-53-3    | Length                                                                                                                                                  | 133                                                                                                                                        |
| 3-53-4-1  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                 |
| 3-53-5    | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVLNLAQSKNFHLVPQDLIDNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT |                                                                                                                                            |
| 3-54      | <b>Sequences</b>                                                                                                                                        |                                                                                                                                            |
| 3-54-1    | Sequence Number [ID]                                                                                                                                    | 54                                                                                                                                         |
| 3-54-2    | Molecule Type                                                                                                                                           | AA                                                                                                                                         |
| 3-54-3    | Length                                                                                                                                                  | 133                                                                                                                                        |
| 3-54-4-1  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                 |
| 3-54-5    | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHQLCEEELKPLEEVLNLAQSKNFHLVPADLIENINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIIISTLT |                                                                                                                                            |

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| <b>3-55</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-55-1      | Sequence Number [ID]                                                                                                                                    | 55                                                                         |
| 3-55-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-55-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-55-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-55-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLDPSDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-56</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-56-1      | Sequence Number [ID]                                                                                                                                    | 56                                                                         |
| 3-56-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-56-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-56-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-56-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLPAPELITNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-57</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-57-1      | Sequence Number [ID]                                                                                                                                    | 57                                                                         |
| 3-57-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-57-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-57-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-57-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLPAPELIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-58</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-58-1      | Sequence Number [ID]                                                                                                                                    | 58                                                                         |
| 3-58-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-58-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-58-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-58-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLAAVGLIQININNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-59</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-59-1      | Sequence Number [ID]                                                                                                                                    | 59                                                                         |
| 3-59-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-59-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-59-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-59-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLPAPELIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-60</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-60-1      | Sequence Number [ID]                                                                                                                                    | 60                                                                         |
| 3-60-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-60-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-60-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |

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| 3-60-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLSPLDLIDNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-61</b> | <b>Sequences</b>                                                                                                                                       |                                                                            |
| 3-61-1      | Sequence Number [ID]                                                                                                                                   | 61                                                                         |
| 3-61-2      | Molecule Type                                                                                                                                          | AA                                                                         |
| 3-61-3      | Length                                                                                                                                                 | 133                                                                        |
| 3-61-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-61-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLSPLDLDNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-62</b> | <b>Sequences</b>                                                                                                                                       |                                                                            |
| 3-62-1      | Sequence Number [ID]                                                                                                                                   | 62                                                                         |
| 3-62-2      | Molecule Type                                                                                                                                          | AA                                                                         |
| 3-62-3      | Length                                                                                                                                                 | 133                                                                        |
| 3-62-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-62-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLSAVOLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-63</b> | <b>Sequences</b>                                                                                                                                       |                                                                            |
| 3-63-1      | Sequence Number [ID]                                                                                                                                   | 63                                                                         |
| 3-63-2      | Molecule Type                                                                                                                                          | AA                                                                         |
| 3-63-3      | Length                                                                                                                                                 | 133                                                                        |
| 3-63-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-63-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLSAQLIDNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-64</b> | <b>Sequences</b>                                                                                                                                       |                                                                            |
| 3-64-1      | Sequence Number [ID]                                                                                                                                   | 64                                                                         |
| 3-64-2      | Molecule Type                                                                                                                                          | AA                                                                         |
| 3-64-3      | Length                                                                                                                                                 | 133                                                                        |
| 3-64-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-64-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLTAQDLIDNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-65</b> | <b>Sequences</b>                                                                                                                                       |                                                                            |
| 3-65-1      | Sequence Number [ID]                                                                                                                                   | 65                                                                         |
| 3-65-2      | Molecule Type                                                                                                                                          | AA                                                                         |
| 3-65-3      | Length                                                                                                                                                 | 133                                                                        |
| 3-65-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-65-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLTPEELIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-66</b> | <b>Sequences</b>                                                                                                                                       |                                                                            |
| 3-66-1      | Sequence Number [ID]                                                                                                                                   | 66                                                                         |
| 3-66-2      | Molecule Type                                                                                                                                          | AA                                                                         |
| 3-66-3      | Length                                                                                                                                                 | 133                                                                        |
|             |                                                                                                                                                        | <b>source</b> 1..133                                                       |

|             |                                                                                                                                                       |                                                                            |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3-66-4-1    | Features Location/Qualifiers                                                                                                                          | mol_type= protein<br>organism= synthetic construct                         |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-66-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLAQSKNFHLPEDLIQININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT   |                                                                            |
| <b>3-67</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-67-1      | Sequence Number [ID]                                                                                                                                  | 67                                                                         |
| 3-67-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-67-3      | Length                                                                                                                                                | 133                                                                        |
| 3-67-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-67-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLAQSKNFHLDPQLLIENININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-68</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-68-1      | Sequence Number [ID]                                                                                                                                  | 68                                                                         |
| 3-68-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-68-3      | Length                                                                                                                                                | 133                                                                        |
| 3-68-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-68-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLAQSKNFHLDPAELIENININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-69</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-69-1      | Sequence Number [ID]                                                                                                                                  | 69                                                                         |
| 3-69-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-69-3      | Length                                                                                                                                                | 133                                                                        |
| 3-69-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-69-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLAQSKNFHLDPNELIENININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-70</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-70-1      | Sequence Number [ID]                                                                                                                                  | 70                                                                         |
| 3-70-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-70-3      | Length                                                                                                                                                | 133                                                                        |
| 3-70-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-70-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLAQSKNFHLDPADLIENININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-71</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-71-1      | Sequence Number [ID]                                                                                                                                  | 71                                                                         |
| 3-71-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-71-3      | Length                                                                                                                                                | 133                                                                        |
| 3-71-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-71-5      | <b>Residues</b><br>APTSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLAQSKNFHLDPADLIQININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-72</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-72-1      | Sequence Number [ID]                                                                                                                                  | 72                                                                         |
| 3-72-2      | Molecule Type                                                                                                                                         | AA                                                                         |

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|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3-72-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-72-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-72-5   | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-72-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLPDEL IENINLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT    |                                                                            |
| 3-73     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-73-1   | Sequence Number [ID]                                                                                                                                    | 73                                                                         |
| 3-73-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-73-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-73-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-73-5   | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-73-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLAPEEL IDNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| 3-74     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-74-1   | Sequence Number [ID]                                                                                                                                    | 74                                                                         |
| 3-74-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-74-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-74-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-74-5   | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-74-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLTPPEL IENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| 3-75     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-75-1   | Sequence Number [ID]                                                                                                                                    | 75                                                                         |
| 3-75-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-75-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-75-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-75-5   | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-75-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPEEL IENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| 3-76     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-76-1   | Sequence Number [ID]                                                                                                                                    | 76                                                                         |
| 3-76-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-76-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-76-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-76-5   | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-76-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLRPEEL IENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| 3-77     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-77-1   | Sequence Number [ID]                                                                                                                                    | 77                                                                         |
| 3-77-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-77-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-77-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-77-5   | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-77-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLVPEEL IENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| 3-78     | <b>Sequences</b>                                                                                                                                        |                                                                            |

|             |                                                                                                                                                         |                                                                            |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3-78-1      | Sequence Number [ID]                                                                                                                                    | 78                                                                         |
| 3-78-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-78-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-78-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-78-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHDPQELIDNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-79</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-79-1      | Sequence Number [ID]                                                                                                                                    | 79                                                                         |
| 3-79-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-79-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-79-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-79-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHLPEDLIDNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-80</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-80-1      | Sequence Number [ID]                                                                                                                                    | 80                                                                         |
| 3-80-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-80-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-80-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-80-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHNAQELIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-81</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-81-1      | Sequence Number [ID]                                                                                                                                    | 81                                                                         |
| 3-81-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-81-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-81-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-81-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHDAQDLISININNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-82</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-82-1      | Sequence Number [ID]                                                                                                                                    | 82                                                                         |
| 3-82-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-82-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-82-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-82-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHVPaelIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| <b>3-83</b> | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-83-1      | Sequence Number [ID]                                                                                                                                    | 83                                                                         |
| 3-83-2      | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-83-3      | Length                                                                                                                                                  | 133                                                                        |
| 3-83-4-1    | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|             | NonEnglishQualifier Value                                                                                                                               |                                                                            |
|             | <b>Residues</b>                                                                                                                                         |                                                                            |

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| 3-83-5   | APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLAPQDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                     |                                                                            |
| 3-84     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-84-1   | Sequence Number [ID]                                                                                                                                    | 84                                                                         |
| 3-84-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-84-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-84-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|          | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-84-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLPPSDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| 3-85     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-85-1   | Sequence Number [ID]                                                                                                                                    | 85                                                                         |
| 3-85-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-85-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-85-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|          | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-85-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLEADVLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| 3-86     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-86-1   | Sequence Number [ID]                                                                                                                                    | 86                                                                         |
| 3-86-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-86-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-86-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|          | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-86-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHMAPSDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| 3-87     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-87-1   | Sequence Number [ID]                                                                                                                                    | 87                                                                         |
| 3-87-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-87-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-87-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|          | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-87-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLPSEL IENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| 3-88     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-88-1   | Sequence Number [ID]                                                                                                                                    | 88                                                                         |
| 3-88-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-88-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-88-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|          | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-88-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLEPAEL IENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| 3-89     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-89-1   | Sequence Number [ID]                                                                                                                                    | 89                                                                         |
| 3-89-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-89-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-89-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein                                  |

|             |                                                                                                                                                                                               |                                                                            |                               |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------|
|             |                                                                                                                                                                                               | NonEnglishQualifier Value                                                  | organism= synthetic construct |
| 3-89-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <sup>LN</sup> GINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLSPOELIENIN <sup>VI</sup> LELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT              |                                                                            |                               |
| <b>3-90</b> | <b>Sequences</b>                                                                                                                                                                              |                                                                            |                               |
| 3-90-1      | Sequence Number [ID]                                                                                                                                                                          | 90                                                                         |                               |
| 3-90-2      | Molecule Type                                                                                                                                                                                 | AA                                                                         |                               |
| 3-90-3      | Length                                                                                                                                                                                        | 133                                                                        |                               |
| 3-90-4-1    | Features Location/Qualifiers                                                                                                                                                                  | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|             | NonEnglishQualifier Value                                                                                                                                                                     |                                                                            |                               |
| 3-90-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <sup>LN</sup> GINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLP <sup>SD</sup> LIENIN <sup>VI</sup> LELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |                               |
| <b>3-91</b> | <b>Sequences</b>                                                                                                                                                                              |                                                                            |                               |
| 3-91-1      | Sequence Number [ID]                                                                                                                                                                          | 91                                                                         |                               |
| 3-91-2      | Molecule Type                                                                                                                                                                                 | AA                                                                         |                               |
| 3-91-3      | Length                                                                                                                                                                                        | 133                                                                        |                               |
| 3-91-4-1    | Features Location/Qualifiers                                                                                                                                                                  | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|             | NonEnglishQualifier Value                                                                                                                                                                     |                                                                            |                               |
| 3-91-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <sup>LN</sup> GINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLP <sup>SD</sup> LIENIN <sup>VI</sup> LELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |                               |
| <b>3-92</b> | <b>Sequences</b>                                                                                                                                                                              |                                                                            |                               |
| 3-92-1      | Sequence Number [ID]                                                                                                                                                                          | 92                                                                         |                               |
| 3-92-2      | Molecule Type                                                                                                                                                                                 | AA                                                                         |                               |
| 3-92-3      | Length                                                                                                                                                                                        | 133                                                                        |                               |
| 3-92-4-1    | Features Location/Qualifiers                                                                                                                                                                  | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|             | NonEnglishQualifier Value                                                                                                                                                                     |                                                                            |                               |
| 3-92-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <sup>LN</sup> GINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLP <sup>QD</sup> LIDNIN <sup>VI</sup> LELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |                               |
| <b>3-93</b> | <b>Sequences</b>                                                                                                                                                                              |                                                                            |                               |
| 3-93-1      | Sequence Number [ID]                                                                                                                                                                          | 93                                                                         |                               |
| 3-93-2      | Molecule Type                                                                                                                                                                                 | AA                                                                         |                               |
| 3-93-3      | Length                                                                                                                                                                                        | 133                                                                        |                               |
| 3-93-4-1    | Features Location/Qualifiers                                                                                                                                                                  | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|             | NonEnglishQualifier Value                                                                                                                                                                     |                                                                            |                               |
| 3-93-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <sup>LN</sup> GINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLP <sup>QD</sup> ELIENIN <sup>VI</sup> LELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |                               |
| <b>3-94</b> | <b>Sequences</b>                                                                                                                                                                              |                                                                            |                               |
| 3-94-1      | Sequence Number [ID]                                                                                                                                                                          | 94                                                                         |                               |
| 3-94-2      | Molecule Type                                                                                                                                                                                 | AA                                                                         |                               |
| 3-94-3      | Length                                                                                                                                                                                        | 133                                                                        |                               |
| 3-94-4-1    | Features Location/Qualifiers                                                                                                                                                                  | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|             | NonEnglishQualifier Value                                                                                                                                                                     |                                                                            |                               |
| 3-94-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <sup>LN</sup> GINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLP <sup>QD</sup> ELIENIN <sup>VI</sup> LELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |                               |
| <b>3-95</b> | <b>Sequences</b>                                                                                                                                                                              |                                                                            |                               |
| 3-95-1      | Sequence Number [ID]                                                                                                                                                                          | 95                                                                         |                               |
| 3-95-2      | Molecule Type                                                                                                                                                                                 | AA                                                                         |                               |

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|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3-95-3       | Length                                                                                                                                                                                                      | 133                                                                        |
| 3-95-4-1     | Features Location/Qualifiers                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-95-5       | NonEnglishQualifier Value                                                                                                                                                                                   |                                                                            |
| 3-95-5       | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <del>L</del> NGINNYKNPKLTRMLTFKFYMPKKATELKH <del>L</del> QCLEELKPLEEVNL <del>A</del> QSKNFHLPVSDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT              |                                                                            |
| <b>3-96</b>  | <b>Sequences</b>                                                                                                                                                                                            |                                                                            |
| 3-96-1       | Sequence Number [ID]                                                                                                                                                                                        | 96                                                                         |
| 3-96-2       | Molecule Type                                                                                                                                                                                               | AA                                                                         |
| 3-96-3       | Length                                                                                                                                                                                                      | 133                                                                        |
| 3-96-4-1     | Features Location/Qualifiers                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-96-5       | NonEnglishQualifier Value                                                                                                                                                                                   |                                                                            |
| 3-96-5       | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <del>L</del> NGINNYKNPKLTRMLTFKFYMPKKATELKH <del>L</del> QCLEELKPLEEVNL <del>A</del> QSKNFHLDPS <del>E</del> LIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-97</b>  | <b>Sequences</b>                                                                                                                                                                                            |                                                                            |
| 3-97-1       | Sequence Number [ID]                                                                                                                                                                                        | 97                                                                         |
| 3-97-2       | Molecule Type                                                                                                                                                                                               | AA                                                                         |
| 3-97-3       | Length                                                                                                                                                                                                      | 133                                                                        |
| 3-97-4-1     | Features Location/Qualifiers                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-97-5       | NonEnglishQualifier Value                                                                                                                                                                                   |                                                                            |
| 3-97-5       | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <del>L</del> NGINNYKNPKLTRMLTFKFYMPKKATELKH <del>L</del> QCLEELKPLEEVNL <del>A</del> QSKNFH <del>L</del> DAATLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-98</b>  | <b>Sequences</b>                                                                                                                                                                                            |                                                                            |
| 3-98-1       | Sequence Number [ID]                                                                                                                                                                                        | 98                                                                         |
| 3-98-2       | Molecule Type                                                                                                                                                                                               | AA                                                                         |
| 3-98-3       | Length                                                                                                                                                                                                      | 133                                                                        |
| 3-98-4-1     | Features Location/Qualifiers                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-98-5       | NonEnglishQualifier Value                                                                                                                                                                                   |                                                                            |
| 3-98-5       | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <del>L</del> NGINNYKNPKLTRMLTFKFYMPKKATELKH <del>L</del> QCLEELKPLEEVNL <del>A</del> QSKNFH <del>L</del> DAKDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-99</b>  | <b>Sequences</b>                                                                                                                                                                                            |                                                                            |
| 3-99-1       | Sequence Number [ID]                                                                                                                                                                                        | 99                                                                         |
| 3-99-2       | Molecule Type                                                                                                                                                                                               | AA                                                                         |
| 3-99-3       | Length                                                                                                                                                                                                      | 133                                                                        |
| 3-99-4-1     | Features Location/Qualifiers                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-99-5       | NonEnglishQualifier Value                                                                                                                                                                                   |                                                                            |
| 3-99-5       | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <del>L</del> NGINNYKNPKLTRMLTFKFYMPKKATELKH <del>L</del> QCLEELKPLEEVNL <del>A</del> QSKNFH <del>L</del> PODDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-100</b> | <b>Sequences</b>                                                                                                                                                                                            |                                                                            |
| 3-100-1      | Sequence Number [ID]                                                                                                                                                                                        | 100                                                                        |
| 3-100-2      | Molecule Type                                                                                                                                                                                               | AA                                                                         |
| 3-100-3      | Length                                                                                                                                                                                                      | 133                                                                        |
| 3-100-4-1    | Features Location/Qualifiers                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
| 3-100-5      | NonEnglishQualifier Value                                                                                                                                                                                   |                                                                            |
| 3-100-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMI <del>L</del> NGINNYKNPKLTRMLTFKFYMPKKATELKH <del>L</del> QCLEELKPLEEVNL <del>A</del> QSKNFH <del>L</del> PPDDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-101</b> | <b>Sequences</b>                                                                                                                                                                                            |                                                                            |

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|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3-101-1      | Sequence Number [ID]                                                                                                                                  | 101                                                                        |
| 3-101-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-101-3      | Length                                                                                                                                                | 133                                                                        |
| 3-101-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-101-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHFDPHDVVENINVLLLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-102</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-102-1      | Sequence Number [ID]                                                                                                                                  | 102                                                                        |
| 3-102-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-102-3      | Length                                                                                                                                                | 133                                                                        |
| 3-102-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-102-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHVPPEDLIANINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-103</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-103-1      | Sequence Number [ID]                                                                                                                                  | 103                                                                        |
| 3-103-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-103-3      | Length                                                                                                                                                | 133                                                                        |
| 3-103-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-103-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHLTPADVVDNMNVLILELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-104</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-104-1      | Sequence Number [ID]                                                                                                                                  | 104                                                                        |
| 3-104-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-104-3      | Length                                                                                                                                                | 133                                                                        |
| 3-104-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-104-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHMSPADMIDNMNVLILELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-105</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-105-1      | Sequence Number [ID]                                                                                                                                  | 105                                                                        |
| 3-105-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-105-3      | Length                                                                                                                                                | 133                                                                        |
| 3-105-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                            |
| 3-105-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVNLNAQSKNFHIEPAEVIONINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-106</b> | <b>Sequences</b>                                                                                                                                      |                                                                            |
| 3-106-1      | Sequence Number [ID]                                                                                                                                  | 106                                                                        |
| 3-106-2      | Molecule Type                                                                                                                                         | AA                                                                         |
| 3-106-3      | Length                                                                                                                                                | 133                                                                        |
| 3-106-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                            |
|              | <b>Residues</b>                                                                                                                                       |                                                                            |

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|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3-106-5   | APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHFDPSDVVANMNVILLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                     |                                                                            |
| 3-107     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-107-1   | Sequence Number [ID]                                                                                                                                    | 107                                                                        |
| 3-107-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-107-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-107-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|           | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-107-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHLPDEVVSNLNVILLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT   |                                                                            |
| 3-108     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-108-1   | Sequence Number [ID]                                                                                                                                    | 108                                                                        |
| 3-108-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-108-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-108-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|           | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-108-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHDAEELIDNLNVILLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT   |                                                                            |
| 3-109     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-109-1   | Sequence Number [ID]                                                                                                                                    | 109                                                                        |
| 3-109-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-109-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-109-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|           | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-109-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHSPEDIISNLNVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT   |                                                                            |
| 3-110     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-110-1   | Sequence Number [ID]                                                                                                                                    | 110                                                                        |
| 3-110-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-110-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-110-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|           | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-110-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHMTAGDVNIENINVLLLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| 3-111     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-111-1   | Sequence Number [ID]                                                                                                                                    | 111                                                                        |
| 3-111-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-111-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-111-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|           | NonEnglishQualifier Value                                                                                                                               |                                                                            |
| 3-111-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEEKPLEEVLNLAQSKNFHLVPEELIDNMNVLLLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                            |
| 3-112     | <b>Sequences</b>                                                                                                                                        |                                                                            |
| 3-112-1   | Sequence Number [ID]                                                                                                                                    | 112                                                                        |
| 3-112-2   | Molecule Type                                                                                                                                           | AA                                                                         |
| 3-112-3   | Length                                                                                                                                                  | 133                                                                        |
| 3-112-4-1 | Features Location/Qualifiers                                                                                                                            | <b>source</b> 1..133<br>mol_type= protein                                  |

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|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------|
|           |                                                                                                                                                                                                                                                            | NonEnglishQualifier Value                                                  | organism= synthetic construct |
| 3-112-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHINPEDLIENLNVLLLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                      |                                                                            |                               |
| 3-113     | <b>Sequences</b>                                                                                                                                                                                                                                           |                                                                            |                               |
| 3-113-1   | Sequence Number [ID]                                                                                                                                                                                                                                       | 113                                                                        |                               |
| 3-113-2   | Molecule Type                                                                                                                                                                                                                                              | AA                                                                         |                               |
| 3-113-3   | Length                                                                                                                                                                                                                                                     | 229                                                                        |                               |
| 3-113-4-1 | Features Location/Qualifiers                                                                                                                                                                                                                               | <b>source</b> 1..229<br>mol_type= protein<br>organism= synthetic construct |                               |
|           | NonEnglishQualifier Value                                                                                                                                                                                                                                  |                                                                            |                               |
| 3-113-5   | <b>Residues</b><br>ASDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEOQNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPOVYTLPPSREEVTKNQVSLTCLVKGFYPSDIAVEWESNGOPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWOOGNVVFSCSVMHREALHNNHYTKQKSLSPGK |                                                                            |                               |
| 3-114     | <b>Sequences</b>                                                                                                                                                                                                                                           |                                                                            |                               |
| 3-114-1   | Sequence Number [ID]                                                                                                                                                                                                                                       | 114                                                                        |                               |
| 3-114-2   | Molecule Type                                                                                                                                                                                                                                              | AA                                                                         |                               |
| 3-114-3   | Length                                                                                                                                                                                                                                                     | 133                                                                        |                               |
| 3-114-4-1 | Features Location/Qualifiers                                                                                                                                                                                                                               | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|           | NonEnglishQualifier Value                                                                                                                                                                                                                                  |                                                                            |                               |
| 3-114-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLDPDQLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                     |                                                                            |                               |
| 3-115     | <b>Sequences</b>                                                                                                                                                                                                                                           |                                                                            |                               |
| 3-115-1   | Sequence Number [ID]                                                                                                                                                                                                                                       | 115                                                                        |                               |
| 3-115-2   | Molecule Type                                                                                                                                                                                                                                              | AA                                                                         |                               |
| 3-115-3   | Length                                                                                                                                                                                                                                                     | 133                                                                        |                               |
| 3-115-4-1 | Features Location/Qualifiers                                                                                                                                                                                                                               | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|           | NonEnglishQualifier Value                                                                                                                                                                                                                                  |                                                                            |                               |
| 3-115-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLPEDLIENINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                      |                                                                            |                               |
| 3-116     | <b>Sequences</b>                                                                                                                                                                                                                                           |                                                                            |                               |
| 3-116-1   | Sequence Number [ID]                                                                                                                                                                                                                                       | 116                                                                        |                               |
| 3-116-2   | Molecule Type                                                                                                                                                                                                                                              | AA                                                                         |                               |
| 3-116-3   | Length                                                                                                                                                                                                                                                     | 133                                                                        |                               |
| 3-116-4-1 | Features Location/Qualifiers                                                                                                                                                                                                                               | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|           | NonEnglishQualifier Value                                                                                                                                                                                                                                  |                                                                            |                               |
| 3-116-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLPEDLIENINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                       |                                                                            |                               |
| 3-117     | <b>Sequences</b>                                                                                                                                                                                                                                           |                                                                            |                               |
| 3-117-1   | Sequence Number [ID]                                                                                                                                                                                                                                       | 117                                                                        |                               |
| 3-117-2   | Molecule Type                                                                                                                                                                                                                                              | AA                                                                         |                               |
| 3-117-3   | Length                                                                                                                                                                                                                                                     | 133                                                                        |                               |
| 3-117-4-1 | Features Location/Qualifiers                                                                                                                                                                                                                               | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |                               |
|           | NonEnglishQualifier Value                                                                                                                                                                                                                                  |                                                                            |                               |
| 3-117-5   | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLPEDLIENINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                       |                                                                            |                               |
| 3-118     | <b>Sequences</b>                                                                                                                                                                                                                                           |                                                                            |                               |
| 3-118-1   | Sequence Number [ID]                                                                                                                                                                                                                                       | 118                                                                        |                               |
| 3-118-2   | Molecule Type                                                                                                                                                                                                                                              | AA                                                                         |                               |

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|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3-118-3      | Length                                                                                                                                                                                                                                                      | 133                                                                        |
| 3-118-4-1    | Features Location/Qualifiers                                                                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                                                                                                                                   |                                                                            |
| 3-118-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHFDPHDVVENINVLLEELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                       |                                                                            |
| <b>3-119</b> | <b>Sequences</b>                                                                                                                                                                                                                                            |                                                                            |
| 3-119-1      | Sequence Number [ID]                                                                                                                                                                                                                                        | 119                                                                        |
| 3-119-2      | Molecule Type                                                                                                                                                                                                                                               | AA                                                                         |
| 3-119-3      | Length                                                                                                                                                                                                                                                      | 133                                                                        |
| 3-119-4-1    | Features Location/Qualifiers                                                                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                                                                                                                                   |                                                                            |
| 3-119-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHVPPEDLIANINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                       |                                                                            |
| <b>3-120</b> | <b>Sequences</b>                                                                                                                                                                                                                                            |                                                                            |
| 3-120-1      | Sequence Number [ID]                                                                                                                                                                                                                                        | 120                                                                        |
| 3-120-2      | Molecule Type                                                                                                                                                                                                                                               | AA                                                                         |
| 3-120-3      | Length                                                                                                                                                                                                                                                      | 133                                                                        |
| 3-120-4-1    | Features Location/Qualifiers                                                                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                                                                                                                                   |                                                                            |
| 3-120-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHVPPEDLIENINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                       |                                                                            |
| <b>3-121</b> | <b>Sequences</b>                                                                                                                                                                                                                                            |                                                                            |
| 3-121-1      | Sequence Number [ID]                                                                                                                                                                                                                                        | 121                                                                        |
| 3-121-2      | Molecule Type                                                                                                                                                                                                                                               | AA                                                                         |
| 3-121-3      | Length                                                                                                                                                                                                                                                      | 133                                                                        |
| 3-121-4-1    | Features Location/Qualifiers                                                                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                                                                                                                                   |                                                                            |
| 3-121-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHFDPADVVENINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                       |                                                                            |
| <b>3-122</b> | <b>Sequences</b>                                                                                                                                                                                                                                            |                                                                            |
| 3-122-1      | Sequence Number [ID]                                                                                                                                                                                                                                        | 122                                                                        |
| 3-122-2      | Molecule Type                                                                                                                                                                                                                                               | AA                                                                         |
| 3-122-3      | Length                                                                                                                                                                                                                                                      | 133                                                                        |
| 3-122-4-1    | Features Location/Qualifiers                                                                                                                                                                                                                                | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                                                                                                                                   |                                                                            |
| 3-122-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHFDPEDVVENINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT                                                                                                       |                                                                            |
| <b>3-123</b> | <b>Sequences</b>                                                                                                                                                                                                                                            |                                                                            |
| 3-123-1      | Sequence Number [ID]                                                                                                                                                                                                                                        | 123                                                                        |
| 3-123-2      | Molecule Type                                                                                                                                                                                                                                               | AA                                                                         |
| 3-123-3      | Length                                                                                                                                                                                                                                                      | 229                                                                        |
| 3-123-4-1    | Features Location/Qualifiers                                                                                                                                                                                                                                | <b>source</b> 1..229<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                                                                                                                                   |                                                                            |
| 3-123-5      | <b>Residues</b><br>ASDKTHTCPPCPAPEAAGGSPVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEVTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVPLDSDGSFFLYSKLTVDKSRWQQGQGVFSCSVMHREALHNHYTQKSLSLSPGK |                                                                            |
| <b>3-124</b> | <b>Sequences</b>                                                                                                                                                                                                                                            |                                                                            |

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| 3-124-1      | Sequence Number [ID]                                                                                                                                   | 124                                                                                                                                  |
| 3-124-2      | Molecule Type                                                                                                                                          | AA                                                                                                                                   |
| 3-124-3      | Length                                                                                                                                                 | 133                                                                                                                                  |
| 3-124-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                           |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-124-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTAMLTAKFAMPKKATELKHLCLEEALKPLEEVNLNAQSKNFHVPPEDLIENINVLVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                      |
| <b>3-125</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                      |
| 3-125-1      | Sequence Number [ID]                                                                                                                                   | 125                                                                                                                                  |
| 3-125-2      | Molecule Type                                                                                                                                          | AA                                                                                                                                   |
| 3-125-3      | Length                                                                                                                                                 | 133                                                                                                                                  |
| 3-125-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                           |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-125-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEEELKPLEEVNLNAQSKNFHFDPADVVENINVFVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                      |
| <b>3-126</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                      |
| 3-126-1      | Sequence Number [ID]                                                                                                                                   | 126                                                                                                                                  |
| 3-126-2      | Molecule Type                                                                                                                                          | AA                                                                                                                                   |
| 3-126-3      | Length                                                                                                                                                 | 133                                                                                                                                  |
| 3-126-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                           |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-126-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPELTRMLTFKFYMPKKATELKHLCLEEELKPLEEVNLNAQSKNFHFDPEDVVENINVFVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                      |
| <b>3-127</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                      |
| 3-127-1      | Sequence Number [ID]                                                                                                                                   | 127                                                                                                                                  |
| 3-127-2      | Molecule Type                                                                                                                                          | AA                                                                                                                                   |
| 3-127-3      | Length                                                                                                                                                 | 133                                                                                                                                  |
| 3-127-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                           |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-127-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by H,K or R<br><b>note (es)</b> : La posicion 81 esta ocupada por H,K o R         |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-127-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E             |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-127-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E             |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-127-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E             |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-127-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L             |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-127-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                      |
| 3-127-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEAKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT   |                                                                                                                                      |
| <b>3-128</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                      |

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| 3-128-1      | Sequence Number [ID]                                                                                                                                   | 128                                                                                                                              |
| 3-128-2      | Molecule Type                                                                                                                                          | AA                                                                                                                               |
| 3-128-3      | Length                                                                                                                                                 | 133                                                                                                                              |
| 3-128-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                       |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                  |
| 3-128-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-128-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by H, K or R                                                                  |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por H, K o R                                                                      |
| 3-128-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
| 3-128-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-128-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-128-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                                                               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                                   |
| 3-128-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCLEEEAKPLEEVNLNAQSKNFHLRPRLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                  |
| <b>3-129</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                  |
| 3-129-1      | Sequence Number [ID]                                                                                                                                   | 129                                                                                                                              |
| 3-129-2      | Molecule Type                                                                                                                                          | AA                                                                                                                               |
| 3-129-3      | Length                                                                                                                                                 | 133                                                                                                                              |
| 3-129-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                       |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                                                  |
| 3-129-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y                                 |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y                                     |
| 3-129-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y                                 |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y                                     |
| 3-129-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
| 3-129-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-129-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-129-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br>note= Position 35 is occupied by K, D, E or Q              |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q |
| 3-129-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCLEEEAKPLEEVNLNAQSKNFHLRPRLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                  |
| <b>3-130</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                                                  |

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| 3-130-1      | Sequence Number [ID]                                                                                                                                 | 130                                                                                              |
| 3-130-2      | Molecule Type                                                                                                                                        | AA                                                                                               |
| 3-130-3      | Length                                                                                                                                               | 133                                                                                              |
| 3-130-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                  |
| 3-130-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-130-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-130-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-130-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-130-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-130-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-130-5      | <b>Residues</b><br>APTSSTTKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEAAKPLEEVLNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-131</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                  |
| 3-131-1      | Sequence Number [ID]                                                                                                                                 | 131                                                                                              |
| 3-131-2      | Molecule Type                                                                                                                                        | AA                                                                                               |
| 3-131-3      | Length                                                                                                                                               | 133                                                                                              |
| 3-131-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                  |
| 3-131-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-131-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-131-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-131-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-131-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-131-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-131-5      | <b>Residues</b><br>APTSSTTKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEAAKPLEEVLNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-132</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                  |
| 3-132-1      | Sequence Number [ID]                                                                                                                                 | 132                                                                                              |

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|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 3-132-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-132-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-132-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-132-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-132-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-132-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-132-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-132-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-132-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-132-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCEEAAKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-133</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-133-1      | Sequence Number [ID]                                                                                                                                   | 133                                                                                              |
| 3-133-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-133-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-133-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-133-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-133-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-133-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y  |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-133-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-133-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-133-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-133-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCEEAAKPLEEVNLNAQSKNFHLRPDLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-134</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-134-1      | Sequence Number [ID]                                                                                                                                   | 134                                                                                              |
| 3-134-2      | Molecule Type                                                                                                                                          | AA                                                                                               |

|              |                                                                                                                                                        |                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 3-134-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-134-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-134-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-134-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-134-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-134-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-134-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-134-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-134-5      | <b>Residues</b><br>APTSSTKKTKQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEEAKPLEEVNLNAQSKNFHLRPRLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-135</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-135-1      | Sequence Number [ID]                                                                                                                                   | 135                                                                                              |
| 3-135-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-135-3      | Length                                                                                                                                                 | 133                                                                                              |
| 3-135-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                                                  |
| 3-135-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-135-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-135-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-135-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-135-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-135-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-135-5      | <b>Residues</b><br>APTSSTKKTKQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEEAKPLEEVLNAQSKNFHLRPRLISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT  |                                                                                                  |
| <b>3-136</b> | <b>Sequences</b>                                                                                                                                       |                                                                                                  |
| 3-136-1      | Sequence Number [ID]                                                                                                                                   | 136                                                                                              |
| 3-136-2      | Molecule Type                                                                                                                                          | AA                                                                                               |
| 3-136-3      | Length                                                                                                                                                 | 133                                                                                              |

|              |                                                                                                                                                       |                                                                                                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-136-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-136-4-2    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-136-4-3    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-136-4-4    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-136-4-5    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-136-4-6    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-136-4-7    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-136-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEEAKPLEEVNLQAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-137</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                                                                                                                  |
| 3-137-1      | Sequence Number [ID]                                                                                                                                  | 137                                                                                                                                                                                              |
| 3-137-2      | Molecule Type                                                                                                                                         | AA                                                                                                                                                                                               |
| 3-137-3      | Length                                                                                                                                                | 133                                                                                                                                                                                              |
| 3-137-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-137-4-2    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-137-4-3    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-137-4-4    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-137-4-5    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-137-4-6    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-137-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEEAKPLEEVNLQAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-138</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                                                                                                                  |
| 3-138-1      | Sequence Number [ID]                                                                                                                                  | 138                                                                                                                                                                                              |
| 3-138-2      | Molecule Type                                                                                                                                         | AA                                                                                                                                                                                               |
| 3-138-3      | Length                                                                                                                                                | 133                                                                                                                                                                                              |
| 3-138-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-138-4-2    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81                                                                                                                                                                                |

|              |                                                                                                                                                      |                                                                                                                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | NonEnglishQualifier Value                                                                                                                            | note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                                              |
| 3-138-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-138-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-138-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-138-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-138-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-138-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCEEEAKPLEEVNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-139</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                                                                                                                  |
| 3-139-1      | Sequence Number [ID]                                                                                                                                 | 139                                                                                                                                                                                              |
| 3-139-2      | Molecule Type                                                                                                                                        | AA                                                                                                                                                                                               |
| 3-139-3      | Length                                                                                                                                               | 133                                                                                                                                                                                              |
| 3-139-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-139-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-139-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-139-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-139-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-139-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-139-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-139-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCEEEAKPLEEVNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| <b>3-140</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                                                                                                                  |
| 3-140-1      | Sequence Number [ID]                                                                                                                                 | 140                                                                                                                                                                                              |
| 3-140-2      | Molecule Type                                                                                                                                        | AA                                                                                                                                                                                               |
| 3-140-3      | Length                                                                                                                                               | 133                                                                                                                                                                                              |
| 3-140-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= unidentified                                                                                                                              |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                                                                                                                  |
| 3-140-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by H, K or R                                                                                                                                  |

|              |                                                                                                                                                        |                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por H, K o R                |
| 3-140-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                   |
| 3-140-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                   |
| 3-140-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-140-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V      |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V          |
| 3-140-4-7    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                   |
| 3-140-4-8    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V         |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V            |
| 3-140-4-9    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                   |
| 3-140-4-10   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M            |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                |
| 3-140-4-11   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-140-4-12   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V            |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                |
| 3-140-4-13   | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q         |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q             |
| 3-140-5      | <b>Residues</b><br>APTSSTTKKTQLQLLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEEAKPLEEVNLNAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                            |
| <b>3-141</b> | <b>Sequences</b>                                                                                                                                       |                                                                            |
| 3-141-1      | Sequence Number [ID]                                                                                                                                   | 141                                                                        |
| 3-141-2      | Molecule Type                                                                                                                                          | AA                                                                         |
| 3-141-3      | Length                                                                                                                                                 | 133                                                                        |
| 3-141-4-1    | Features Location/Qualifiers                                                                                                                           | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct |
|              | NonEnglishQualifier Value                                                                                                                              |                                                                            |
| 3-141-4-2    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                   |
| 3-141-4-3    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 83<br>note= Position 83 is occupied by H, K or R            |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 83 esta ocupada por H, K o R                |
| 3-141-4-4    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                   |
| 3-141-4-5    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E               |
|              | NonEnglishQualifier Value                                                                                                                              | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-141-4-6    | Features Location/Qualifiers                                                                                                                           | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V      |

|              |                                                                                                                                                    |                                                                                                  |
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|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-141-4-7    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-141-4-8    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-141-4-9    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-141-4-10   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-141-4-11   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-141-4-12   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-141-4-13   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-141-5      | <b>Residues</b><br>APTSSSTKKTKLQLEHLLDLQMLNGINNYPKLTAMLTAKFAMPKKATELKHLCLEEEAKPLEEVNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-142</b> | <b>Sequences</b>                                                                                                                                   |                                                                                                  |
| 3-142-1      | Sequence Number [ID]                                                                                                                               | 142                                                                                              |
| 3-142-2      | Molecule Type                                                                                                                                      | AA                                                                                               |
| 3-142-3      | Length                                                                                                                                             | 133                                                                                              |
| 3-142-4-1    | Features Location/Qualifiers                                                                                                                       | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|              | NonEnglishQualifier Value                                                                                                                          |                                                                                                  |
| 3-142-4-2    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-142-4-3    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-142-4-4    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-142-4-5    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                         |
| 3-142-4-6    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-142-4-7    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-142-4-8    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-142-4-9    | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|              | NonEnglishQualifier Value                                                                                                                          | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-142-4-10   | Features Location/Qualifiers                                                                                                                       | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |

|              |                                                                                                                                                      |                                                                                                  |
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|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-142-4-11   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-142-4-12   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-142-4-13   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-142-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEAKPLEEVNLAAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| <b>3-143</b> | <b>Sequences</b>                                                                                                                                     |                                                                                                  |
| 3-143-1      | Sequence Number [ID]                                                                                                                                 | 143                                                                                              |
| 3-143-2      | Molecule Type                                                                                                                                        | AA                                                                                               |
| 3-143-3      | Length                                                                                                                                               | 133                                                                                              |
| 3-143-4-1    | Features Location/Qualifiers                                                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|              | NonEnglishQualifier Value                                                                                                                            |                                                                                                  |
| 3-143-4-2    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |
| 3-143-4-3    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-143-4-4    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-143-4-5    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-143-4-6    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-143-4-7    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-143-4-8    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-143-4-9    | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-143-4-10   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-143-4-11   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-143-4-12   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-143-4-13   | Features Location/Qualifiers                                                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|              | NonEnglishQualifier Value                                                                                                                            | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-143-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEAKPLEEVNLAAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |

|            |                                                                                                                                                       |                                                                                                  |
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| 3-144      | Sequences                                                                                                                                             |                                                                                                  |
| 3-144-1    | Sequence Number [ID]                                                                                                                                  | 144                                                                                              |
| 3-144-2    | Molecule Type                                                                                                                                         | AA                                                                                               |
| 3-144-3    | Length                                                                                                                                                | 133                                                                                              |
| 3-144-4-1  | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                  |
| 3-144-4-2  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-144-4-3  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E                                     |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                         |
| 3-144-4-4  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E                                     |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                         |
| 3-144-4-5  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y     |
| 3-144-4-6  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V                            |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                |
| 3-144-4-7  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P                                     |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                         |
| 3-144-4-8  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V                               |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                  |
| 3-144-4-9  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V                                     |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                         |
| 3-144-4-10 | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M                                  |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                      |
| 3-144-4-11 | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L                                     |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                         |
| 3-144-4-12 | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V                                  |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                      |
| 3-144-4-13 | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q                               |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                   |
| 3-144-5    | <b>Residues</b><br>APTSSTTKKTQLQLEHLLLDQLMILNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEEAKPLEEVNLNAQSKNFHLRPDLISNINIVIELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                  |
| 3-145      | Sequences                                                                                                                                             |                                                                                                  |
| 3-145-1    | Sequence Number [ID]                                                                                                                                  | 145                                                                                              |
| 3-145-2    | Molecule Type                                                                                                                                         | AA                                                                                               |
| 3-145-3    | Length                                                                                                                                                | 133                                                                                              |
| 3-145-4-1  | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                       |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                  |
| 3-145-4-2  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E                                     |
|            | NonEnglishQualifier Value                                                                                                                             | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                         |

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| 3-145-4-3  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
| 3-145-4-4  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-145-4-5  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 87<br>note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-145-4-6  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
| 3-145-4-7  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
| 3-145-4-8  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
| 3-145-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
| 3-145-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
| 3-145-4-11 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-145-4-12 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
| 3-145-4-13 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
| 3-145-5    | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCEEAKPLEEVNLAQSKNFHLPRDLISNINVIIVLELKGETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-146      | <b>Sequences</b>                                                                                                                                   |                                                                                                                                                                                                  |
| 3-146-1    | Sequence Number [ID]                                                                                                                               | 146                                                                                                                                                                                              |
| 3-146-2    | Molecule Type                                                                                                                                      | AA                                                                                                                                                                                               |
| 3-146-3    | Length                                                                                                                                             | 133                                                                                                                                                                                              |
| 3-146-4-1  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-146-4-2  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-146-4-3  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-146-4-4  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-146-4-5  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-146-4-6  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                      | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |

|            |                                                                                                                                                             |                                                                                                                                                                                                  |
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| 3-146-4-7  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
| 3-146-4-8  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
| 3-146-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
| 3-146-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
| 3-146-4-11 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-146-4-12 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
| 3-146-4-13 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
| 3-146-5    | <b>Residues</b><br>APTSSTKKTQLQLLEHL LLDLQMLNGINNYKNPKLTAML TAKFAMPKKATELKHLOCLEEEAKPLEEVNL AOSKNFHLRPRDL ISNINNVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-147      | <b>Sequences</b>                                                                                                                                            |                                                                                                                                                                                                  |
| 3-147-1    | Sequence Number [ID]                                                                                                                                        | 147                                                                                                                                                                                              |
| 3-147-2    | Molecule Type                                                                                                                                               | AA                                                                                                                                                                                               |
| 3-147-3    | Length                                                                                                                                                      | 133                                                                                                                                                                                              |
| 3-147-4-1  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
| 3-147-4-2  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-147-4-3  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
| 3-147-4-4  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 84<br>note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-147-4-5  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-147-4-6  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
| 3-147-4-7  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
| 3-147-4-8  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
| 3-147-4-9  | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
| 3-147-4-10 | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                               | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |

|              |                                                                                                                                                       |                                                                                                                                                                                                      |
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| 3-147-4-11   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-147-4-12   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
| 3-147-4-13   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
| 3-147-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEAKPLEEVNLNAQSKNFHLRPDLISININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                      |
| <b>3-148</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                                                                                                                      |
| 3-148-1      | Sequence Number [ID]                                                                                                                                  | 148                                                                                                                                                                                                  |
| 3-148-2      | Molecule Type                                                                                                                                         | AA                                                                                                                                                                                                   |
| 3-148-3      | Length                                                                                                                                                | 133                                                                                                                                                                                                  |
| 3-148-4-1    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                           |
| 3-148-4-2    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
| 3-148-4-3    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 83<br>note= Position 83 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><br><b>note (es)</b> : La posicion 83 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
| 3-148-4-4    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
| 3-148-4-5    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
| 3-148-4-6    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
| 3-148-4-7    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
| 3-148-4-8    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
| 3-148-4-9    | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
| 3-148-4-10   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
| 3-148-4-11   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
| 3-148-4-12   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
| 3-148-4-13   | Features Location/Qualifiers<br><br>NonEnglishQualifier Value                                                                                         | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
| 3-148-5      | <b>Residues</b><br>APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEAKPLEEVNLNAQSKNFHLRPDLISININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                      |
| <b>3-149</b> | <b>Sequences</b>                                                                                                                                      |                                                                                                                                                                                                      |

|            |                                                                                                                                                       |                                                                                                                                                                                                  |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-149-1    | Sequence Number [ID]                                                                                                                                  | 149                                                                                                                                                                                              |
| 3-149-2    | Molecule Type                                                                                                                                         | AA                                                                                                                                                                                               |
| 3-149-3    | Length                                                                                                                                                | 133                                                                                                                                                                                              |
| 3-149-4-1  | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-2  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y<br><b>note (es)</b> : La posicion 81 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-3  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                                                                         |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-4  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                                                                         |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-5  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                                                                         |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-6  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                                                       |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-7  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                                                                         |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-8  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                                                            |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-9  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                                                                         |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-10 | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                                                   |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-11 | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                                                                         |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-12 | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                                                   |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-4-13 | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                                                             |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-149-5    | <b>Residues</b><br>APTSSSTKTKTLQLQHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCEEAKPLEEVLNLAQSKNFHLRPDLISNINVIIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                                                                                  |
| 3-150      | <b>Sequences</b>                                                                                                                                      |                                                                                                                                                                                                  |
| 3-150-1    | Sequence Number [ID]                                                                                                                                  | 150                                                                                                                                                                                              |
| 3-150-2    | Molecule Type                                                                                                                                         | AA                                                                                                                                                                                               |
| 3-150-3    | Length                                                                                                                                                | 133                                                                                                                                                                                              |
| 3-150-4-1  | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                                                                       |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-150-4-2  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                                                                         |
|            | NonEnglishQualifier Value                                                                                                                             |                                                                                                                                                                                                  |
| 3-150-4-3  | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 83                                                                                                                                                                                |

|              |                                                                                                                                                       |                                                                                              |
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|              | NonEnglishQualifier Value                                                                                                                             | note= Position 83 is occupied by D or E                                                      |
| 3-150-4-4    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                     |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 84                                                                            |
|              |                                                                                                                                                       | note= Position 84 is occupied by D or E                                                      |
| 3-150-4-5    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 84 esta ocupada por D o E                                     |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 87                                                                            |
|              |                                                                                                                                                       | note= Position 87 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y                  |
| 3-150-4-6    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 87 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 80                                                                            |
|              |                                                                                                                                                       | note= Position 80 is occupied by F, I, L, M or V                                             |
| 3-150-4-7    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                            |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 82                                                                            |
|              |                                                                                                                                                       | note= Position 82 is occupied by A or P                                                      |
| 3-150-4-8    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 82 esta ocupada por A o P                                     |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 85                                                                            |
|              |                                                                                                                                                       | note= Position 85 is occupied by I, L, M or V                                                |
| 3-150-4-9    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V                              |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 86                                                                            |
|              |                                                                                                                                                       | note= Position 86 is occupied by I or V                                                      |
| 3-150-4-10   | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 86 esta ocupada por I o V                                     |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 89                                                                            |
|              |                                                                                                                                                       | note= Position 89 is occupied by I, L or M                                                   |
| 3-150-4-11   | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 89 esta ocupada por I, L o M                                  |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 92                                                                            |
|              |                                                                                                                                                       | note= Position 92 is occupied by I or L                                                      |
| 3-150-4-12   | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 92 esta ocupada por I o L                                     |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 93                                                                            |
|              |                                                                                                                                                       | note= Position 93 is occupied by I, L or V                                                   |
| 3-150-4-13   | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V                                  |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 35                                                                            |
|              |                                                                                                                                                       | note= Position 35 is occupied by K, D, E or Q                                                |
| 3-150-5      | <b>Residues</b><br>APTSSTTKTKTQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHQLCEEKPLEEVNLNAQSKNFHLRPRDLISNINWIVLELKGSETTFMCEYADETATIEVFLNRWITFSQSIISTLT | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q                               |
| <b>3-151</b> | <b>Sequences</b>                                                                                                                                      |                                                                                              |
| 3-151-1      | Sequence Number [ID]                                                                                                                                  | 151                                                                                          |
| 3-151-2      | Molecule Type                                                                                                                                         | AA                                                                                           |
| 3-151-3      | Length                                                                                                                                                | 133                                                                                          |
| 3-151-4-1    | Features Location/Qualifiers                                                                                                                          | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                   |
|              | NonEnglishQualifier Value                                                                                                                             |                                                                                              |
| 3-151-4-2    | Features Location/Qualifiers                                                                                                                          | <b>VARIANT</b> 81                                                                            |
|              | NonEnglishQualifier Value                                                                                                                             | note= Position 81 is occupied by D or E                                                      |
| 3-151-4-3    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 81 esta ocupada por D o E                                     |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 83                                                                            |
|              |                                                                                                                                                       | note= Position 83 is occupied by D or E                                                      |
| 3-151-4-4    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 83 esta ocupada por D o E                                     |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 84                                                                            |
|              |                                                                                                                                                       | note= Position 84 is occupied by A, N, G, Q, I, L, M, F, P, S, T, V, W or Y                  |
| 3-151-4-5    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 84 esta ocupada por A, N, G, Q, I, L, M, F, P, S, T, V, W o Y |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 87                                                                            |
|              |                                                                                                                                                       | note= Position 87 is occupied by D or E                                                      |
| 3-151-4-6    | Features Location/Qualifiers                                                                                                                          | <b>note (es)</b> : La posicion 87 esta ocupada por D o E                                     |
|              | NonEnglishQualifier Value                                                                                                                             | <b>VARIANT</b> 80                                                                            |
|              |                                                                                                                                                       | note= Position 80 is occupied by F, I, L, M or V                                             |
|              |                                                                                                                                                       | <b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V                            |

|            |                                                                                                                                                        |                                                                                                                                            |
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| 3-151-4-7  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                   |
| 3-151-4-8  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V      |
| 3-151-4-9  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                   |
| 3-151-4-10 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M             |
| 3-151-4-11 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L<br><b>note (es)</b> : La posicion 92 esta ocupada por I o L                   |
| 3-151-4-12 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V<br><b>note (es)</b> : La posicion 93 esta ocupada por I, L o V             |
| 3-151-4-13 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q<br><b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q       |
| 3-151-5    | <b>Residues</b><br>APTSSSTKKTKQLQLEHLLLDLQMLNGINNYKNPKLTAMLTAKFAMPKKATELKHLCLEEAKPLEEVNLNAQSKNFHLRPRDLISNNIVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                                                                                            |
| 3-152      | <b>Sequences</b>                                                                                                                                       |                                                                                                                                            |
| 3-152-1    | Sequence Number [ID]                                                                                                                                   | 152                                                                                                                                        |
| 3-152-2    | Molecule Type                                                                                                                                          | AA                                                                                                                                         |
| 3-152-3    | Length                                                                                                                                                 | 133                                                                                                                                        |
| 3-152-4-1  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>source</b> 1..133<br>mol_type= protein<br>organism= synthetic construct                                                                 |
| 3-152-4-2  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 81<br>note= Position 81 is occupied by D or E<br><b>note (es)</b> : La posicion 81 esta ocupada por D o E                   |
| 3-152-4-3  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 83<br>note= Position 83 is occupied by D or E<br><b>note (es)</b> : La posicion 83 esta ocupada por D o E                   |
| 3-152-4-4  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 84<br>note= Position 84 is occupied by D or E<br><b>note (es)</b> : La posicion 84 esta ocupada por D o E                   |
| 3-152-4-5  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 87<br>note= Position 87 is occupied by D or E<br><b>note (es)</b> : La posicion 87 esta ocupada por D o E                   |
| 3-152-4-6  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 80<br>note= Position 80 is occupied by F, I, L, M or V<br><b>note (es)</b> : La posicion 80 esta ocupada por F, I, L, M o V |
| 3-152-4-7  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 82<br>note= Position 82 is occupied by A or P<br><b>note (es)</b> : La posicion 82 esta ocupada por A o P                   |
| 3-152-4-8  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 85<br>note= Position 85 is occupied by I, L, M or V<br><b>note (es)</b> : La posicion 85 esta ocupada por I, L, M or V      |
| 3-152-4-9  | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 86<br>note= Position 86 is occupied by I or V<br><b>note (es)</b> : La posicion 86 esta ocupada por I o V                   |
| 3-152-4-10 | Features Location/Qualifiers<br>NonEnglishQualifier Value                                                                                              | <b>VARIANT</b> 89<br>note= Position 89 is occupied by I, L or M<br><b>note (es)</b> : La posicion 89 esta ocupada por I, L o M             |

|            |                                                                                                                                                         |                                                                    |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 3-152-4-11 | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 92<br>note= Position 92 is occupied by I or L       |
|            | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 92 esta ocupada por I o L           |
| 3-152-4-12 | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 93<br>note= Position 93 is occupied by I, L or V    |
|            | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 93 esta ocupada por I, L o V        |
| 3-152-4-13 | Features Location/Qualifiers                                                                                                                            | <b>VARIANT</b> 35<br>note= Position 35 is occupied by K, D, E or Q |
|            | NonEnglishQualifier Value                                                                                                                               | <b>note (es)</b> : La posicion 35 esta ocupada por K, D, E o Q     |
| 3-152-5    | <b>Residues</b><br>APTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTAMLTAKFAMPKKATELKHLQCLEEEAKPLEEVNLNAQSKNFHLRPDLISININVIVLELKGSETTFMCEYADETATIVEFLNRWITFSQSIISTLT |                                                                    |