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<110> UTI LIMITED PARTNERSHIP

<120> ENSAYO PARA MEDIR LA POTENCIA DE INTERACCIONES DE
RECEPTOR-LIGANDO EN NANOMEDICINAS

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<141> 2018-04-05

<150> 62/483,298

<151> 2017-04-07

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Glu Tyr Ile Leu Tyr Leu Gln Gly Ile Glu Leu Gly Tyr Trp Lys

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Ile Arg Tyr Arg Leu Val Tyr Asn Arg Gln Asn Thr Leu Asn Arg

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Glu Asn Phe Ile Arg Ile Asn Gly Lys Arg Trp Leu Tyr Phe Lys

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SEQ ID NO: 138

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Asn Ala Thr Phe Ser Met Asp Gln Leu Lys Phe Gly Asp Thr Ile

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SEQ ID NO: 141

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10 <212> PRT

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Lys Met Arg Lys Gln Ile Arg Gly Leu Ser Gln Ala Ser Leu Asn

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15 **SEQ ID NO: 142**

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Gly Ala Tyr Lys Leu Ile Gln Lys Glu Leu Gly Leu Ala Ser Ser

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SEQ ID NO: 143

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SEQ ID NO: 144

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Tyr Lys Leu Ile Gln Lys Glu Leu Gly Leu Ala Ser Ser Ile Gly

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Gly Cys Ile Ser Tyr Ala Leu Val Ser His Thr Ala Lys Gly Ser
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15 Val Tyr Ala Leu Lys Arg Gln Gly

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<400> 154

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5 <213> Homo sapiens

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SEQ ID NO: 157

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Arg Lys Thr Val Thr Ala Met Asp Val Val Tyr Ala Leu Lys Arg

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SEQ ID NO: 158

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Thr Val Thr Ala Met Asp Val Val Tyr Ala Leu Lys Arg Gln

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SEQ ID NO: 159

10 <210> 159

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1 5 10 15

SEQ ID NO: 160

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20 <212> PRT

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Lys Ala Val Thr Lys Ala Gln Lys Lys Asp Gly Lys Lys Arg Lys

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SEQ ID NO: 161

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5 <213> Homo sapiens

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Ser Thr Asp His Pro Lys Tyr Ser Asp Met Ile Val Ala Ala Ile Gln

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Ala Glu Lys Asn Arg

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SEQ ID NO: 162

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15 <213> Homo sapiens

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Lys Tyr Ser Asp Met Ile Val Ala Ala Ile Gln Ala Glu Lys Asn

1 5 10 15

SEQ ID NO: 163

20 <210> 163

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<213> Homo sapiens

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Ser Gln Glu Tyr Ser Gly Ser Val Ala Asn Glu Ala Asn Val Tyr

1 5 10 15

SEQ ID NO: 164

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5 <211> 15

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<213> Homo sapiens

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Ser His Ser Leu Pro Tyr Glu Ser Ser Ile Ser Thr Ala Leu Glu

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SEQ ID NO: 165

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15 <213> Homo sapiens

<400> 165

Thr Gly Ala Tyr Ser Asn Ala Ser Ser Thr Glu Ser Ala Ser Tyr

1 5 10 15

SEQ ID NO: 166

20 <210> 166

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<213> Homo sapiens

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Ser Phe Leu Ser Gln Glu Tyr Ser Gly Ser Val Ala Asn Glu Ala

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SEQ ID NO: 167

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5 <211> 20

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Lys Asn Lys His

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SEQ ID NO: 168

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Lys Thr Thr Lys Gln Ser Phe Asp Leu Ser Val Lys Ala Gln Tyr

20 1 5 10 15

SEQ ID NO: 169

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<213> Homo sapiens

<400> 169

Thr Thr Lys Gln Ser Phe Asp Leu Ser Val Lys Ala Gln Tyr Lys

1 5 10 15

5 **SEQ ID NO: 170**

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SEQ ID NO: 171

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<213> Homo sapiens

<400> 171

Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu

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SEQ ID NO: 172

<210> 172

<211> 15

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<213> Homo sapiens

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Ala Pro Arg Pro Gly Val Leu Leu Leu Leu Leu Ser Ile Leu His

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5 **SEQ ID NO: 173**

<210> 173

<211> 15

<212> PRT

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Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala Lys Ala

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SEQ ID NO: 174

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<213> Homo sapiens

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Val Leu Leu Leu Leu Ser Ile Leu His Pro Ser Arg Pro Gly

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SEQ ID NO: 175

<210> 175

<211> 15

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<213> Homo sapiens

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Ala Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu

1 5 10 15

5 **SEQ ID NO: 176**

<210> 176

<211> 15

<212> PRT

<213> Homo sapiens

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Val Ala Ala Lys Ala Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala

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SEQ ID NO: 177

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Lys Ser Ala Ala Lys Val Ala Ala Lys Ala Gln Leu Arg Ala Ala

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SEQ ID NO: 178

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<400> 178

Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu

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5 **SEQ ID NO: 179**

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Lys Ala Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro

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SEQ ID NO: 180

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<213> Homo sapiens

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Arg Pro Thr Met Asp Gly Asp Pro Asp Thr Pro Lys Pro Val Ser

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SEQ ID NO: 183

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SEQ ID NO: 184

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Lys Arg Ile Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val

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Arg Ile Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Pro

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SEQ ID NO: 187

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Arg Phe Ala Leu Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu Lys

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SEQ ID NO: 189

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Asp Gly Arg Tyr Val Leu Asn Gly His Trp Val Val Ser Pro Pro

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SEQ ID NO: 190

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Thr His Val Val Tyr Thr Arg Asp Thr Gly Pro Gln Glu Thr Leu

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<210> 191

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Arg Leu Leu His Tyr Cys Gly Ser Asp Phe Val Phe Gln Ala Arg

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SEQ ID NO: 192

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<213> Homo sapiens

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SEQ ID NO: 193

<210> 193

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Glu Thr Arg Tyr Glu Val Arg Ile Gln Leu Val Tyr Lys Asn Arg

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<213> Homo sapiens

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SEQ ID NO: 195

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Glu Gly His Ala Phe Tyr His Ser Phe Gly Arg Val Leu Asp Gly

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SEQ ID NO: 196

<210> 196

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Asn Pro Gly Ile Glu Phe Glu Phe Trp Leu Pro Arg Glu Arg Tyr

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SEQ ID NO: 198

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Val Gln Arg Val Phe Arg Asp Ala Gly Ala Phe Ala Gly Tyr Trp

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SEQ ID NO: 199

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Gln Leu Val Tyr Lys Asn Arg Ser Pro Leu Arg Ala Arg Glu Tyr

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Arg Arg Phe Glu Tyr Asp Asp Pro Arg Phe Leu Arg Leu Leu Asp

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SEQ ID NO: 201

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<400> 201

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Glu Asn Leu Arg Ile Val Val Ala Asp Leu Phe Ser Ala Gly Met

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1 5 10 15

Arg Arg Val Gln

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Trp Glu Lys Pro

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SEQ ID NO: 205

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Asp Pro Arg Phe Leu Arg Leu Leu Asp Leu Ala Gln Glu Gly Leu

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SEQ ID NO: 206

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SEQ ID NO: 207

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Asp Leu Phe Ser Ala Gly Met Val Thr Thr Ser Thr Thr Leu Ala

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SEQ ID NO: 208

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5 <213> Homo sapiens

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Glu Leu Phe Leu Phe Phe Thr Ser Leu Leu Gln His Phe Ser Phe

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SEQ ID NO: 209

10 <210> 209

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SEQ ID NO: 210

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20 <212> PRT

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<400> 210

Glu Gln Arg Arg Phe Ser Val Ser Thr Leu Arg Asn Leu Gly Leu

1 5 10 15

SEQ ID NO: 211

<210> 211

<211> 20

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5 <213> Homo sapiens

<400> 211

Arg Arg Phe Glu Tyr Asp Asp Pro Arg Phe Leu Arg Leu Leu Asp Leu

1 5 10 15

Ala Gln Glu Gly

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SEQ ID NO: 212

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15 <213> Homo sapiens

<400> 212

Ala Gly Met Val Thr Thr Ser Thr Thr Leu Ala Trp Gly Leu Leu Leu

1 5 10 15

Met Ile Leu His

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SEQ ID NO: 213

<210> 213

<211> 21

<212> PRT

<213> Homo sapiens

<400> 213

Ala Gly Met Val Thr Thr Ser Thr Thr Leu Ala Trp Gly Leu Leu Leu

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5 Met Ile Leu His Pro

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SEQ ID NO: 214

<210> 214

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10 <212> PRT

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<400> 214

Gln Arg Arg Phe Ser Val Ser Thr Leu Arg Asn Leu Gly Leu Gly

1 5 10 15

15 **SEQ ID NO: 215**

<210> 215

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Glu Ser Gly Phe Leu Arg Glu Val Leu Asn Ala Val Pro Val Leu

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SEQ ID NO: 216

<210> 216

<211> 15

<212> PRT

<213> Homo sapiens

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SEQ ID NO: 217

<210> 217

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10 <212> PRT

<213> Homo sapiens

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Asp Pro Arg Phe Leu Arg Leu Leu Asp Leu Ala Gln Glu Gly Leu

1 5 10 15

15 **SEQ ID NO: 218**

<210> 218

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<213> Homo sapiens

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Gly Lys Val Leu Arg Phe Gln Lys Ala Phe Leu Thr Gln Leu Asp

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SEQ ID NO: 219

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<213> Homo sapiens

<400> 219

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SEQ ID NO: 220

<210> 220

<211> 15

10 <212> PRT

<213> Homo sapiens

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Asp Ile Glu Val Gln Gly Phe Arg Ile Pro Lys Gly Thr Thr Leu

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15 **SEQ ID NO: 221**

<210> 221

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<213> Homo sapiens

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Lys Pro Glu Ala Phe Leu Pro Phe Ser Ala Gly Arg Arg Ala Cys

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SEQ ID NO: 222

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<212> PRT

<213> Homo sapiens

<400> 222

5 Tyr Lys Lys Leu Leu Lys Glu Arg Lys Glu Met Phe Ser Tyr Leu

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SEQ ID NO: 223

<210> 223

<211> 15

10 <212> PRT

<213> Homo sapiens

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Asp Glu Leu Arg Thr Asp Leu Lys Ala Val Glu Ala Lys Val Gln

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15 **SEQ ID NO: 224**

<210> 224

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<213> Homo sapiens

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SEQ ID NO: 225

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<212> PRT

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SEQ ID NO: 226

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10 <212> PRT

<213> Homo sapiens

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Leu Ile Gln Gln Gly Ala Arg Val Gly Arg Ile Asp

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<213> Homo sapiens

20 <400> 227

Ser Pro Ser Leu Asp Val Leu Ile Thr Leu Leu Ser Leu Gly Ser

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SEQ ID NO: 228

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<211> 15

<212> PRT

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5 Asp Gln Lys Ser Cys Phe Lys Ser Met Ile Thr Ala Gly Phe Glu

1 5 10 15

SEQ ID NO: 229

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10 <212> PRT

<213> Homo sapiens

<400> 229

Tyr Thr Phe Arg Gly Phe Met Ser His Thr Asn Asn Tyr Pro Cys

1 5 10 15

15 **SEQ ID NO: 230**

<210> 230

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<212> PRT

<213> Homo sapiens

20 <400> 230

Tyr Asn Glu Arg Leu Leu His Thr Pro His Asn Pro Ile Ser Leu

1 5 10 15

SEQ ID NO: 231

<210> 231

<211> 15

<212> PRT

<213> Homo sapiens

<400> 231

5 Asp Cys Ile Leu Cys Ile His Ser Thr Thr Ser Cys Phe Ala Pro

1 5 10 15

SEQ ID NO: 232

<210> 232

<211> 15

10 <212> PRT

<213> Homo sapiens

<400> 232

Ser Ser Leu Leu Asn Lys Ile Thr Asn Ser Leu Val Leu Asp Ile

1 5 10 15

15 **SEQ ID NO: 233**

<210> 233

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<212> PRT

<213> Homo sapiens

20 <400> 233

Gly Ser Ser Leu Leu Asn Lys Ile Thr Asn Ser Leu Val Leu Asp

1 5 10 15

SEQ ID NO: 234

<210> 234

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1 5 10 15

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SEQ ID NO: 273

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SEQ ID NO: 287

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SEQ ID NO: 288

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SEQ ID NO: 291

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SEQ ID NO: 299

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Lys Val Tyr Lys Thr Leu Asp Thr Pro Phe Phe Ser Thr Gly Lys

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SEQ ID NO: 321

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Lys Val Ser Phe Phe Cys Lys Asn Lys Glu Lys Lys Cys Ser Tyr

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SEQ ID NO: 328

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SEQ ID NO: 330

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SEQ ID NO: 333

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SEQ ID NO: 336

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SEQ ID NO: 337

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SEQ ID NO: 338

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Ser Leu Gln Met Arg Gly Asn Pro Gly Ser His Phe Cys Gly Gly

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SEQ ID NO: 339

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SEQ ID NO: 340

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SEQ ID NO: 389

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Ala Leu Gly Thr Thr Cys Tyr Ala Ser

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Asn Leu Asn Gly Ala Gly Asp Pro Leu

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Pro Leu Glu Arg Phe Ala Glu Leu Val

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SEQ ID NO: 454

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His Asp Ile Glu Thr Asn Pro Gly

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<213> Virus de la encefalomiocarditis

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His Asp Ile Glu Thr Asn Pro Gly Pro

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SEQ ID NO: 458

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10 <213> Virus de la encefalomiocarditis

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His Asp Ile Glu Thr Asn Pro Gly Pro

15 20 25

SEQ ID NO: 459

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<212> PRT

20 <213> Virus mengo

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His Asp Val Glu Thr Asn Pro Gly Pro

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SEQ ID NO: 460

<210> 460

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5 <212> PRT

<213> Virus de encefalomyelitis de Theiler

<400> 460

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10 His Asp Val Glu Met Asn Pro Gly Pro

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25

SEQ ID NO: 461

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15 <212> PRT

<213> Virus de encefalomyelitis de Theiler

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20 His Asp Val Glu Met Asn Pro Gly Pro

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SEQ ID NO: 462

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<213> Virus de encefalomyelitis de Theiler

<400> 462

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His Asp Val Glu Thr Asn Pro Gly Pro

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SEQ ID NO: 463

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15 Virus similar al de Theiler

<400> 463

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His Asp Val Glu Thr Asn Pro Gly Pro

20 20 25

SEQ ID NO: 464

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<212> PRT

<213> Ljungan virus

<400> 464

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Cys Gly Asp Val Glu Thr Asn Pro Gly Pro

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SEQ ID NO: 465

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10 <211> 26

<212> PRT

<213> Virus Ljungan

<400> 465

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Cys Gly Asp Val Glu Ser Asn Pro Gly Pro

20 25

SEQ ID NO: 466

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20 <211> 26

<212> PRT

<213> Virus Ljungan

<400> 466

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Cys Gly Asp Val Glu Thr Asn Pro Gly Pro

20 25

SEQ ID NO: 467

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<211> 26

<212> PRT

<213> Virus Ljungan

<400> 467

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Cys Gly Asp Val Glu Thr Asn Pro Gly Pro

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<213> Virus enfermedad pie y boca

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1 5 10 15

Pro Gly Pro

SEQ ID NO: 469

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<211> 19

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<213> Virus enfermedad pie y boca

<400> 469

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1 5 10 15

Pro Gly Pro

SEQ ID NO: 470

<210> 470

10 <211> 19

<212> PRT

<213> Virus enfermedad pie y boca

<400> 470

Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn

15 1 5 10 15

Pro Gly Pro

SEQ ID NO: 471

<210> 471

<211> 19

20 <212> PRT

<213> Virus enfermedad pie y boca

<400> 471

Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Met Glu Ser Asn

1 5 10 15

Pro Gly Pro

SEQ ID NO: 472

<210> 472

<211> 19

5 <212> PRT

<213> Virus enfermedad pie y boca

<400> 472

Leu Thr Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn

1 5 10 15

10 Pro Gly Pro

SEQ ID NO: 473

<210> 473

<211> 19

<212> PRT

15 <213> Virus enfermedad pie y boca

<400> 473

Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn

1 5 10 15

Pro Gly Pro

20 **SEQ ID NO: 474**

<210> 474

<211> 19

<212> PRT

<213> Virus enfermedad pie y boca

<400> 474

Leu Leu Ser Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn

1 5 10 15

Pro Gly Pro

5 **SEQ ID NO: 475**

<210> 475

<211> 19

<212> PRT

<213> Virus enfermedad pie y boca

10 <400> 475

Met Cys Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn

1 5 10 15

Pro Gly Pro

SEQ ID NO: 476

15 <210> 476

<211> 19

<212> PRT

<213> Virus enfermedad pie y boca

<400> 476

20 Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn

1 5 10 15

Pro Gly Pro

SEQ ID NO: 477

<210> 477

<211> 19

<212> PRT

<213> Virus de la rinitis equina A

<400> 477

5 Cys Thr Asn Tyr Ser Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn

1 5 10 15

Pro Gly Pro

SEQ ID NO: 478

<210> 478

10 <211> 20

<212> PRT

<213> Virus de la rinitis equina B

<400> 478

Gly Ala Thr Asn Phe Ser Leu Leu Lys Leu Ala Gly Asp Val Glu Leu

15 1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 479

<210> 479

20 <211> 20

<212> PRT

<213> Human endogenous retrovirus

<400> 479

Gly Ala Thr Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 480

5 <210> 480

<211> 22

<212> PRT

<213> Circovirus porcino 1

<400> 480

10 Gly Pro Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val

1 5 10 15

Glu Glu Asn Pro Gly Pro

20

SEQ ID NO: 481

15 <210> 481

<211> 22

<212> PRT

<213> Circovirus porcino 2

<400> 481

20 Gly Pro Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val

1 5 10 15

Glu Glu Asn Pro Gly Pro

20

SEQ ID NO: 482

<210> 482

<211> 22

<212> PRT

<213> Circovirus porcino 3

5 <400> 482

Gly Pro Gly Ala Ser Ser Phe Ser Leu Leu Lys Gln Ala Gly Asp Val

1 5 10 15

Glu Glu Asn Pro Gly Pro

20

10 **SEQ ID NO: 483**

<210> 483

<211> 22

<212> PRT

<213> Circovirus porcino 4

15 <400> 483

Gly Pro Gly Ala Ser Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val

1 5 10 15

Glu Glu Asn Pro Gly Pro

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20 **SEQ ID NO: 484**

<210> 484

<211> 22

<212> PRT

<213> Circovirus porcino 5

<400> 484

Gly Pro Gly Ala Ala Asn Phe Ser Leu Leu Arg Gln Ala Gly Asp Val

1 5 10 15

Glu Glu Asn Pro Gly Pro

5 20

SEQ ID NO: 485

<210> 485

<211> 22

<212> PRT

10 <213> Circovirus porcino 6

<400> 485

Gly Pro Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val

1 5 10 15

Glu Glu Asn Pro Gly Pro

15 20

SEQ ID NO: 486

<210> 486

<211> 22

<212> PRT

20 <213> Circovirus porcino 7

<400> 486

Gly Pro Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val

1 5 10 15

Glu Glu Asn Pro Gly Pro

20

SEQ ID NO: 487

<210> 487

<211> 22

5 <212> PRT

<213> Circovirus porcino 8

<400> 487

Gly Pro Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Ile

1 5 10 15

10 Glu Glu Asn Pro Gly Pro

20

SEQ ID NO: 488

<210> 488

<211> 22

15 <212> PRT

<213> Circovirus porcino 9

<400> 488

Gly Pro Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val

1 5 10 15

20 Glu Glu Asn Pro Gly Pro

20

SEQ ID NO: 489

<210> 489

<211> 22

<212> PRT

<213> Circovirus porcino 10

<400> 489

Gly Pro Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val

5 1 5 10 15

Glu Glu Asn Pro Gly Pro

20

SEQ ID NO: 490

<210> 490

10 <211> 22

<212> PRT

<213> Circovirus porcino 11

<400> 490

Gly Pro Gly Ala Thr Asn Phe Ser Leu Leu Lys Arg Ala Gly Asp Val

15 1 5 10 15

Glu Glu Asn Pro Gly Pro

20

SEQ ID NO: 491

<210> 491

20 <211> 20

<212> PRT

<213> Cricket paralysis virus

<400> 491

Phe Leu Arg Lys Arg Thr Gln Leu Leu Met Ser Gly Asp Val Glu Ser

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 492

5 <210> 492

<211> 20

<212> PRT

<213> Virus Drosophila C

<400> 492

10 Glu Ala Ala Arg Gln Met Leu Leu Leu Leu Ser Gly Asp Val Glu Thr

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 493

15 <210> 493

<211> 20

<212> PRT

<213> Virus de la parálisis aguda de las abejas

<400> 493

20 Gly Ser Trp Thr Asp Ile Leu Leu Leu Leu Ser Gly Asp Val Glu Thr

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 494

<210> 494

<211> 20

<212> PRT

<213> Virus de la parálisis aguda de las abejas

5 <400> 494

Gly Ser Trp Thr Asp Ile Leu Leu Leu Leu Ser Gly Asp Val Glu Thr

1 5 10 15

Asn Pro Gly Pro

20

10 **SEQ ID NO: 495**

<210> 495

<211> 20

<212> PRT

<213> Virus de la parálisis aguda de las abejas

15 <400> 495

Gly Ser Trp Thr Asp Ile Leu Leu Leu Trp Ser Gly Asp Val Glu Thr

1 5 10 15

Asn Pro Gly Pro

20

20 **SEQ ID NO: 496**

<210> 496

<211> 20

<212> PRT

<213> Virus infeccioso de flacherie

<400> 496

Thr Arg Ala Glu Ile Glu Asp Glu Leu Ile Arg Ala Gly Ile Glu Ser

1 5 10 15

Asn Pro Gly Pro

5 20

SEQ ID NO: 497

<210> 497

<211> 20

<212> PRT

10 <213> Virus de la aspermia del tomate

<400> 497

Arg Ala Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu

1 5 10 15

Asn Pro Gly Pro

15 20

SEQ ID NO: 498

<210> 498

<211> 20

20 <212> PRT

<213> Virus de la encefalosis equina

<400> 498

Gln Gly Ala Gly Arg Gly Ser Leu Val Thr Cys Gly Asp Val Glu Glu

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 499

<210> 499

5 <211> 20

<212> PRT

<213> Virus acyrthosiphon pisum

<400> 499

Asn Tyr Pro Met Pro Glu Ala Leu Gln Lys Ile Ile Asp Leu Glu Ser

10 1 5 10 15

Asn Pro Pro Pro

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SEQ ID NO: 500

<210> 500

15 <211> 20

<212> PRT

<213> Virus de la abeja de Cachemira

<400> 500

Gly Thr Trp Glu Ser Val Leu Asn Leu Leu Ala Gly Asp Ile Glu Leu

20 1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 501

<210> 501

<211> 20

<212> PRT

<213> Perina nuda picorna-like virus

<400> 501

5 Ala Gln Gly Trp Val Pro Asp Leu Thr Val Asp Gly Asp Val Glu Ser

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 502

10 <210> 502

<211> 20

<212> PRT

<213> Perina nuda picorna-like virus

<400> 502

15 Ile Gly Gly Gly Gln Lys Asp Leu Thr Gln Asp Gly Asp Ile Glu Ser

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 503

20 <210> 503

<211> 20

<212> PRT

<213> Virus Ectropis obliqua picorna

<400> 503

Ala Gln Gly Trp Ala Pro Asp Leu Thr Gln Asp Gly Asp Val Glu Ser

1 5 10 15

Asn Pro Gly Pro

20

5 **SEQ ID NO: 504**

<210> 504

<211> 20

<212> PRT

<213> Virus Ectropis obliqua picorna

10 <400> 504

Ile Gly Gly Gly Gln Arg Asp Leu Thr Gln Asp Gly Asp Ile Glu Ser

1 5 10 15

Asn Pro Gly Pro

20

15 **SEQ ID NO: 505**

<210> 505

<211> 19

<212> PRT

<213> Virus de la Providencia

20 <400> 505

Val Gly Asp Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Ser Asn

1 5 10 15

Pro Gly Pro

SEQ ID NO: 506

<210> 506

<211> 19

<212> PRT

<213> Virus de la Providencia

5 <400> 506

Ser Gly Gly Arg Gly Ser Leu Leu Thr Ala Gly Asp Val Glu Lys Asn

1 5 10 15

Pro Gly Pro

SEQ ID NO: 507

10 <210> 507

<211> 19

<212> PRT

<213> Virus de la Providencia

<400> 507

15 Gly Asp Pro Ile Glu Asp Leu Thr Asp Asp Gly Asp Ile Glu Lys Asn

1 5 10 15

Pro Gly Pro

SEQ ID NO: 508

<210> 508

20 <211> 20

<212> PRT

<213> Rotavirus bovino

<400> 508

Ser Lys Phe Gln Ile Asp Arg Ile Leu Ile Ser Gly Asp Ile Glu Leu

1 5 10 15

Asn Pro Gly Pro

20

5 **SEQ ID NO: 509**

<210> 509

<211> 20

<212> PRT

<213> Rotavirus porcino

10 <400> 509

Ala Lys Phe Gln Ile Asp Lys Ile Leu Ile Ser Gly Asp Val Glu Leu

1 5 10 15

Asn Pro Gly Pro

20

15 **SEQ ID NO: 510**

<210> 510

<211> 20

<212> PRT

<213> Rotavirus humano

20 <400> 510

Ser Lys Phe Gln Ile Asp Lys Ile Leu Ile Ser Gly Asp Ile Glu Leu

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 511

<210> 511

<211> 20

<212> PRT

5 <213> Bombyx mori

<400> 511

Phe Arg Ser Asn Tyr Asp Leu Leu Lys Leu Cys Gly Asp Ile Glu Ser

1 5 10 15

Asn Pro Gly Pro

10 20

SEQ ID NO: 512

<210> 512

<211> 20

<212> PRT

15 <213> Lymantria dispar

<400> 512

Phe Arg Ser Asn Tyr Asp Leu Leu Lys Leu Cys Gly Asp Val Glu Ser

1 5 10 15

Asn Pro Gly Pro

20 20

SEQ ID NO: 513

<210> 513

<211> 20

<212> PRT

<213> Dendrolimus punctatus

<400> 513

Phe Arg Ser Asn Tyr Asp Leu Leu Lys Leu Cys Gly Asp Val Glu Ser

1 5 10 15

5 Asn Pro Gly Pro

20

SEQ ID NO: 514

<210> 514

<211> 20

10 <212> PRT

<213> Trypanosoma brucei

<400> 514

Ser Ser Ile Ile Arg Thr Lys Met Leu Val Ser Gly Asp Val Glu Glu

1 5 10 15

15 Asn Pro Gly Pro

20

SEQ ID NO: 515

<210> 515

<211> 20

20 <212> PRT

<213> Trypanosoma brucei

<400> 515

Ser Ser Ile Ile Arg Thr Lys Met Leu Leu Ser Gly Asp Val Glu Glu

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 516

<210> 516

5 <211> 20

<212> PRT

<213> Trypanosoma brucei

<400> 516

Ser Ser Ile Ile Arg Thr Lys Met Leu Leu Ser Gly Asp Val Glu Glu

10 1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 517

<210> 517

15 <211> 20

<212> PRT

<213> Trypanosoma brucei

<400> 517

Ser Ser Ile Ile Arg Thr Lys Ile Leu Leu Ser Gly Asp Val Glu Glu

20 1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 518

<210> 518

<211> 20

<212> PRT

<213> Trypanosoma cruzi

<400> 518

5 Cys Asp Ala Gln Arg Gln Lys Leu Leu Leu Ser Gly Asp Ile Glu Gln

1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 519

10 <210> 519

<211> 21

<212> PRT

<213> Thermotoga maritima

<220>

15 <221> MOD_RES

<222> (21)..(21)

<223> Qualquer aminoácido

<400> 519

Tyr Ile Pro Asp Phe Gly Gly Phe Leu Val Lys Ala Asp Ser Glu Phe

20 1 5 10 15

Asn Pro Gly Pro Xaa

20

SEQ ID NO: 520

<210> 520

<211> 21

<212> PRT

<213> Bordetella bronchiseptica

<400> 520

5 Val His Cys Ala Gly Arg Gly Gly Pro Val Arg Leu Leu Asp Lys Glu

1 5 10 15

Gly Asn Pro Gly Pro

20

SEQ ID NO: 521

10 <210> 521

<211> 21

<212> PRT

<213> Mus musculus

<220>

15 <221> MOD_RES

<222> (21)..(21)

<223> Cualquier aminoácido

<400> 521

Asp Leu Glu Leu Glu Thr Val Gly Ser His Gln Ala Asp Ala Glu Thr

20 1 5 10 15

Asn Pro Gly Pro Xaa

20

SEQ ID NO: 522

<210> 522

<211> 21

<212> PRT

<213> Drosophila melanogaster

<220>

5 <221> MOD_RES

<222> (21)..(21)

<223> Cualquier aminoácido

<400> 522

Thr Ala Ala Asp Lys Ile Gln Gly Ser Trp Lys Met Asp Thr Glu Gly

10 1 5 10 15

Asn Pro Gly Pro Xaa

20

SEQ ID NO: 523

<210> 523

15 <211> 20

<212> PRT

<213> Aspergillus nidulans

<400> 523

Pro Ile Thr Asn Arg Pro Arg Asn Ser Gly Leu Ile Asp Thr Glu Ile

20 1 5 10 15

Asn Pro Gly Pro

20

SEQ ID NO: 524

<210> 524

25 <211> 583

<212> ADN

<213> Virus de la encefalomiocarditis

<400> 524

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5  tgcgtttgtc tatatgttat tttccaccat attgccgtct tttggcaatg tgagggcccg 120
gaaacctggc cctgtcttct tgacgagcat tcctaggggt ctttcccctc tcgccaaagg 180
aatgcaaggt ctgttgaatg tcgtgaagga agcagttcct ctggaagctt cttgaagaca 240
aacaacgtct gtagcgaccc tttgcaggca gcggaacccc ccacctggcg acaggtgcct 300
ctgcggccaa aagccacgtg tataagatac acctgcaaag gcggcacaac cccagtgcc 360
10 cgttgtgagt tggatagttg tggaaagagt caaatggctc tcctcaagcg tattcaacaa 420
ggggctgaag gatgccaga aggtacccca ttgtatggga tctgatctgg ggcctcggta 480
cacatgcttt acatgtgttt agtcgaggtt aaaaaaacgt ctaggccccc cgaaccacgg 540
ggacgtgggtt ttcctttgaa aaacacgatg ataatatggc cac 583
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SEQ ID NO: 525

15 <210> 525

<211> 366

<212> ADN

<213> Secuencia Artificial

<220>

20 <223> Description of Secuencia Artificial: Polinucleótido

Sintético

<400> 525

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25 accgggagcg gctgggttcc cggctgcgcg cccttcggcc aggccgggag ccgcgccagt 120
cggagccccc ggcccagcgt ggtccgcctc cctctgggcg tccacctgcc cggagtactg 180
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ccagcgggca tgaccgaccc accaggggcg ccgccgccgg cgctcgcagg ccgcggatga 240
agaagaaaac ccggcgccgc tcgacccgga gcgaggagtt gacccggagc gaggagttga 300
ccctgagtga ggaagcgacc tggagtgaag aggcgaccca gagtgaggag gcgacccagg 360
gcgaag 366

5 **SEQ ID NO: 526**

<210> 526

<211> 92

<212> ADN

<213> Secuencia Artificial

10 <220>

<223> Description of Secuencia Artificial: Oligonucleótido
Sintético

<400> 526

aaaagaagga aaaagaagga aaagaaggaa aaagaaggct gcaggcggct gcagaaaaga 60

15 aggaaaaaga aggaaaagaa ggaaaaagaa gg 92

20

SEQ ID NO: 527

25 <210> 527

<211> 611

<212> PRT

<213> Secuencia Artificial

<220>

5 <223> Descripción de Secuencia Artificial: Polipéptido

Sintético

<400> 527

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10	1			5						10					15	
	Asp	Trp	Val	Asn	Ser	Gln	Gln	Lys	Asn	Asp	Asp	Gln	Gln	Val	Lys	Gln
				20						25					30	
	Asn	Ser	Pro	Ser	Leu	Ser	Val	Gln	Glu	Gly	Arg	Ile	Ser	Ile	Leu	Asn
				35						40					45	
15	Cys	Asp	Tyr	Thr	Asn	Ser	Met	Phe	Asp	Tyr	Phe	Leu	Trp	Tyr	Lys	Lys
				50				55				60				
	Tyr	Pro	Ala	Glu	Gly	Pro	Thr	Phe	Leu	Ile	Ser	Ile	Ser	Ser	Ile	Lys
	65							70				75				80
	Asp	Lys	Asn	Glu	Asp	Gly	Arg	Phe	Thr	Val	Phe	Leu	Asn	Lys	Ser	Ala
20				85						90					95	
	Lys	His	Leu	Ser	Leu	His	Ile	Val	Pro	Ser	Gln	Pro	Gly	Asp	Ser	Ala
				100						105					110	
	Val	Tyr	Phe	Cys	Ala	Ala	Thr	Asn	Ser	Gly	Gly	Ser	Asn	Tyr	Lys	Leu
				115						120					125	

	Thr	Phe	Gly	Lys	Gly	Thr	Leu	Leu	Thr	Val	Asn	Pro	Asn	Ile	Gln	Asn
	130						135					140				
	Pro	Asp	Pro	Ala	Val	Tyr	Gln	Leu	Arg	Asp	Ser	Lys	Ser	Ser	Asp	Lys
	145					150					155					160
5	Ser	Val	Cys	Leu	Phe	Thr	Asp	Phe	Asp	Ser	Gln	Thr	Asn	Val	Ser	Gln
					165					170					175	
	Ser	Lys	Asp	Ser	Asp	Val	Tyr	Ile	Thr	Asp	Lys	Thr	Val	Leu	Asp	Met
					180					185				190		
	Arg	Ser	Met	Asp	Phe	Lys	Ser	Asn	Ser	Ala	Val	Ala	Trp	Ser	Asn	Lys
10		195					200					205				
	Ser	Asp	Phe	Ala	Cys	Ala	Asn	Ala	Phe	Asn	Asn	Ser	Ile	Ile	Pro	Glu
	210						215					220				
	Asp	Thr	Phe	Phe	Pro	Ser	Pro	Glu	Ser	Ser	Cys	Asp	Val	Lys	Leu	Val
	225					230					235					240
15	Glu	Lys	Ser	Phe	Glu	Thr	Asp	Thr	Asn	Leu	Asn	Phe	Gln	Asn	Leu	Ser
					245					250					255	
	Val	Ile	Gly	Phe	Arg	Ile	Leu	Leu	Leu	Lys	Val	Ala	Gly	Phe	Asn	Leu
					260					265					270	
	Leu	Met	Thr	Leu	Arg	Leu	Trp	Ser	Ser	Gly	Ser	Gly	Ala	Thr	Asn	Phe
20		275					280						285			
	Ser	Leu	Leu	Lys	Gln	Ala	Gly	Asp	Val	Glu	Glu	Asn	Pro	Gly	Pro	Met
	290						295					300				
	Ser	Asn	Gln	Val	Leu	Cys	Cys	Val	Val	Leu	Cys	Phe	Leu	Gly	Ala	Asn
	305					310					315					320

	Thr	Val	Asp	Gly	Gly	Ile	Thr	Gln	Ser	Pro	Lys	Tyr	Leu	Phe	Arg	Lys
					325					330					335	
	Glu	Gly	Gln	Asn	Val	Thr	Leu	Ser	Cys	Glu	Gln	Asn	Leu	Asn	His	Asp
				340					345					350		
5	Ala	Met	Tyr	Trp	Tyr	Arg	Gln	Asp	Pro	Gly	Gln	Gly	Leu	Arg	Leu	Ile
			355					360					365			
	Tyr	Tyr	Ser	Gln	Ile	Val	Asn	Asp	Phe	Gln	Lys	Gly	Asp	Ile	Ala	Glu
		370					375					380				
	Gly	Tyr	Ser	Val	Ser	Arg	Glu	Lys	Lys	Glu	Ser	Phe	Pro	Leu	Thr	Val
10	385					390					395					400
	Thr	Ser	Ala	Gln	Lys	Asn	Pro	Thr	Ala	Phe	Tyr	Leu	Cys	Ala	Ser	Gly
				405						410					415	
	Gly	Arg	Val	Tyr	Gln	Pro	Gln	His	Phe	Gly	Asp	Gly	Thr	Arg	Leu	Ser
			420					425						430		
15	Ile	Leu	Glu	Asp	Leu	Asn	Lys	Val	Phe	Pro	Pro	Glu	Val	Ala	Val	Phe
		435						440					445			
	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys	Ala	Thr	Leu	Val
		450					455					460				
	Cys	Leu	Ala	Thr	Gly	Phe	Phe	Pro	Asp	His	Val	Glu	Leu	Ser	Trp	Trp
20	465					470					475					480
	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	Gln	Pro
				485						490					495	
	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr	Cys	Leu	Ser	Ser
			500						505					510		

Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe
 515 520 525
 Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr
 530 535 540
 5 Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp
 545 550 555 560
 Gly Arg Ala Asp Cys Gly Phe Thr Ser Val Ser Tyr Gln Gln Gly Val
 565 570 575
 Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu
 10 580 585 590
 Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg
 595 600 605
 Lys Asp Phe
 610
 15 **SEQ ID NO: 528**
 <210> 528
 <211> 281
 <212> PRT
 <213> Secuencia Artificial
 20 <220>
 <223> Descripción de Secuencia Artificial: Polipéptido
 Sintético
 <400> 528

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				20				25						30		
5	Asn	Ser	Pro	Ser	Leu	Ser	Val	Gln	Glu	Gly	Arg	Ile	Ser	Ile	Leu	Asn
		35					40						45			
	Cys	Asp	Tyr	Thr	Asn	Ser	Met	Phe	Asp	Tyr	Phe	Leu	Trp	Tyr	Lys	Lys
		50				55						60				
	Tyr	Pro	Ala	Glu	Gly	Pro	Thr	Phe	Leu	Ile	Ser	Ile	Ser	Ser	Ile	Lys
10	65				70					75					80	
	Asp	Lys	Asn	Glu	Asp	Gly	Arg	Phe	Thr	Val	Phe	Leu	Asn	Lys	Ser	Ala
				85					90						95	
	Lys	His	Leu	Ser	Leu	His	Ile	Val	Pro	Ser	Gln	Pro	Gly	Asp	Ser	Ala
			100					105						110		
15	Val	Tyr	Phe	Cys	Ala	Ala	Thr	Asn	Ser	Gly	Gly	Ser	Asn	Tyr	Lys	Leu
		115					120						125			
	Thr	Phe	Gly	Lys	Gly	Thr	Leu	Leu	Thr	Val	Asn	Pro	Asn	Ile	Gln	Asn
		130				135						140				
	Pro	Asp	Pro	Ala	Val	Tyr	Gln	Leu	Arg	Asp	Ser	Lys	Ser	Ser	Asp	Lys
20	145				150					155					160	
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Met Ser Asn Gln Val Leu Cys Cys Val Val Leu Cys Phe Leu Gly Ala

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	210		215		220
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	Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala				
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15 305

SEQ ID NO: 530

<210> 530

<211> 255

<212> PRT

20 <213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido
Sintético

<400> 530

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	Phe	Leu	Trp	Tyr	Lys	Lys	Tyr	Pro	Ala	Glu	Gly	Pro	Thr	Phe	Leu	Ile
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	145					150					155				160	
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		180		185		190										
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5		210				215					220					
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					180					185					190				
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					210					215					220				
		Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	Ala	Glu	Ala	Trp	Gly	Arg		

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Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala			
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SEQ ID NO: 532

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<211> 1622

<212> ADN

<213> Secuencia Artificial

<220>

15 <223> Descripción de Secuencia Artificial: Polinucleótido

Sintético

<400> 532

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20 **SEQ ID NO: 533**

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<211> 603

<212> PRT

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<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido

Sintético

<400> 533

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50 55 60

Tyr Pro Ala Glu Gly Pro Thr Phe Leu Ile Ser Ile Ser Ser Ile Lys

15 65 70 75 80

Asp Lys Asn Glu Asp Gly Arg Phe Thr Val Phe Leu Asn Lys Ser Ala

85 90 95

Lys His Leu Ser Leu His Ile Val Pro Ser Gln Pro Gly Asp Ser Ala

100 105 110

20 Val Tyr Phe Cys Ala Ala Thr Asn Ser Gly Gly Ser Asn Tyr Lys Leu

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	Glu	Thr	Asp	Met	Asn	Leu	Asn	Phe	Gln	Asn	Leu	Ser	Val	Met	Gly	Leu
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		Ile	Val	Asn	Asp	Phe	Gln	Lys	Gly	Asp	Ile	Ala	Glu	Gly	Tyr	Ser	Val		
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					420					425					430				
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10 **SEQ ID NO: 534**

<210> 534

<211> 277

<212> PRT

15 <213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido Sintético

<400> 534

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	145						150						155			160		
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	195						200						205					
	Thr	Ser	Phe	Thr	Cys	Gln	Asp	Ile	Phe	Lys	Glu	Thr	Asn	Ala	Thr	Tyr		
	210						215						220					

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	Glu	Thr	Asp	Met	Asn	Leu	Asn	Phe	Gln	Asn	Leu	Ser	Val	Met	Gly	Leu
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SEQ ID NO: 535

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<211> 304

<212> PRT

<213> Secuencia Artificial

<220>

15 <223> Descripción de Secuencia Artificial: Polipéptido

Sintético

<400> 535

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	Val	Thr	Ser	Ala	Gln	Lys	Asn	Pro	Thr	Ala	Phe	Tyr	Leu	Cys	Ala	Ser
				100					105					110		
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	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	Gln
				180					185					190		
	Ala	Tyr	Lys	Glu	Ser	Asn	Tyr	Ser	Tyr	Cys	Leu	Ser	Ser	Arg	Leu	Arg
20			195						200					205		
	Val	Ser	Ala	Thr	Phe	Trp	His	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys	Gln
			210						215				220			
	Val	Gln	Phe	His	Gly	Leu	Ser	Glu	Glu	Asp	Lys	Trp	Pro	Glu	Gly	Ser
	225					230					235					240

	Pro	Lys	Pro	Val	Thr	Gln	Asn	Ile	Ser	Ala	Glu	Ala	Trp	Gly	Arg	Ala
						245				250					255	
	Asp	Cys	Gly	Ile	Thr	Ser	Ala	Ser	Tyr	Gln	Gln	Gly	Val	Leu	Ser	Ala
				260					265					270		
5	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu	Gly	Lys	Ala	Thr	Leu	Tyr	Ala	Val
				275					280					285		
	Leu	Val	Ser	Thr	Leu	Val	Val	Met	Ala	Met	Val	Lys	Arg	Lys	Asn	Ser
			290					295					300			

SEQ ID NO: 536

10 <210> 536

<211> 251

<212> PRT

<213> Secuencia Artificial

<220>

15 <223> Descripción de Secuencia Artificial: Polipéptido

Sintético

<400> 536

	Asp	Gln	Gln	Val	Lys	Gln	Asn	Ser	Pro	Ser	Leu	Ser	Val	Gln	Glu	Gly
20	1				5					10					15	
	Arg	Ile	Ser	Ile	Leu	Asn	Cys	Asp	Tyr	Thr	Asn	Ser	Met	Phe	Asp	Tyr
				20					25					30		
	Phe	Leu	Trp	Tyr	Lys	Lys	Tyr	Pro	Ala	Glu	Gly	Pro	Thr	Phe	Leu	Ile
				35				40					45			

	Ser	Ile	Ser	Ser	Ile	Lys	Asp	Lys	Asn	Glu	Asp	Gly	Arg	Phe	Thr	Val
	50						55					60				
	Phe	Leu	Asn	Lys	Ser	Ala	Lys	His	Leu	Ser	Leu	His	Ile	Val	Pro	Ser
	65					70					75				80	
5	Gln	Pro	Gly	Asp	Ser	Ala	Val	Tyr	Phe	Cys	Ala	Ala	Thr	Asn	Ser	Gly
					85					90				95		
	Gly	Ser	Asn	Tyr	Lys	Leu	Thr	Phe	Gly	Lys	Gly	Thr	Leu	Leu	Thr	Val
					100				105				110			
	Asn	Pro	Asn	Ile	Gln	Asn	Pro	Glu	Pro	Ala	Val	Tyr	Gln	Leu	Lys	Asp
10			115				120					125				
	Pro	Arg	Ser	Gln	Asp	Ser	Thr	Leu	Cys	Leu	Phe	Thr	Asp	Phe	Asp	Ser
		130					135					140				
	Gln	Ile	Asn	Val	Pro	Lys	Thr	Met	Glu	Ser	Gly	Thr	Phe	Ile	Thr	Asp
	145					150					155				160	
15	Lys	Thr	Val	Leu	Asp	Met	Lys	Ala	Met	Asp	Ser	Lys	Ser	Asn	Gly	Ala
					165					170				175		
	Ile	Ala	Trp	Ser	Asn	Gln	Thr	Ser	Phe	Thr	Cys	Gln	Asp	Ile	Phe	Lys
					180				185				190			
	Glu	Thr	Asn	Ala	Thr	Tyr	Pro	Ser	Ser	Asp	Val	Pro	Cys	Asp	Ala	Thr
20			195				200					205				
	Leu	Thr	Glu	Lys	Ser	Phe	Glu	Thr	Asp	Met	Asn	Leu	Asn	Phe	Gln	Asn
			210				215					220				
	Leu	Ser	Val	Met	Gly	Leu	Arg	Ile	Leu	Leu	Leu	Lys	Val	Ala	Gly	Phe
	225					230					235				240	

Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser

245

250

SEQ ID NO: 537

<210> 537

5 <211> 285

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido

10 Sintético

<400> 537

Asp Gly Gly Ile Thr Gln Ser Pro Lys Tyr Leu Phe Arg Lys Glu Gly

1

5

10

15

15 Gln Asn Val Thr Leu Ser Cys Glu Gln Asn Leu Asn His Asp Ala Met

20

25

30

Tyr Trp Tyr Arg Gln Asp Pro Gly Gln Gly Leu Arg Leu Ile Tyr Tyr

35

40

45

Ser Gln Ile Val Asn Asp Phe Gln Lys Gly Asp Ile Ala Glu Gly Tyr

20

50

55

60

Ser Val Ser Arg Glu Lys Lys Glu Ser Phe Pro Leu Thr Val Thr Ser

65

70

75

80

Ala Gln Lys Asn Pro Thr Ala Phe Tyr Leu Cys Ala Ser Gly Gly Arg

85

90

95

	Val	Tyr	Gln	Pro	Gln	His	Phe	Gly	Asp	Gly	Thr	Arg	Leu	Ser	Ile	Leu	
				100					105					110			
	Glu	Asp	Leu	Arg	Asn	Val	Thr	Pro	Pro	Lys	Val	Ser	Leu	Phe	Glu	Pro	
			115					120					125				
5	Ser	Lys	Ala	Glu	Ile	Ala	Asn	Lys	Gln	Lys	Ala	Thr	Leu	Val	Cys	Leu	
		130					135					140					
	Ala	Arg	Gly	Phe	Phe	Pro	Asp	His	Val	Glu	Leu	Ser	Trp	Trp	Val	Asn	
	145					150					155				160		
	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	Gln	Ala	Tyr	Lys	
10					165				170					175			
	Glu	Ser	Asn	Tyr	Ser	Tyr	Cys	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	
			180						185					190			
	Thr	Phe	Trp	His	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	
			195					200					205				
15	His	Gly	Leu	Ser	Glu	Glu	Asp	Lys	Trp	Pro	Glu	Gly	Ser	Pro	Lys	Pro	
		210						215				220					
	Val	Thr	Gln	Asn	Ile	Ser	Ala	Glu	Ala	Trp	Gly	Arg	Ala	Asp	Cys	Gly	
	225					230					235				240		
	Ile	Thr	Ser	Ala	Ser	Tyr	Gln	Gln	Gly	Val	Leu	Ser	Ala	Thr	Ile	Leu	
20					245					250				255			
	Tyr	Glu	Ile	Leu	Leu	Gly	Lys	Ala	Thr	Leu	Tyr	Ala	Val	Leu	Val	Ser	
				260					265					270			
	Thr	Leu	Val	Val	Met	Ala	Met	Val	Lys	Arg	Lys	Asn	Ser				
		275						280					285				

SEQ ID NO: 538

<210> 538

<211> 605

5 <212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido

Sintético

10 <400> 538

	Met	Glu	Thr	Leu	Leu	Gly	Val	Ser	Leu	Val	Ile	Leu	Trp	Leu	Gln	Leu
	1				5					10					15	
	Ala	Arg	Val	Asn	Ser	Gln	Gln	Gly	Glu	Glu	Asp	Pro	Gln	Ala	Leu	Ser
15				20				25					30			
	Ile	Gln	Glu	Gly	Glu	Asn	Ala	Thr	Met	Asn	Cys	Ser	Tyr	Lys	Thr	Ser
			35					40					45			
	Ile	Asn	Asn	Leu	Gln	Trp	Tyr	Arg	Gln	Asn	Ser	Gly	Arg	Gly	Leu	Val
		50					55					60				
20	His	Leu	Ile	Leu	Ile	Arg	Ser	Asn	Glu	Arg	Glu	Lys	His	Ser	Gly	Arg
	65					70					75				80	
	Leu	Arg	Val	Thr	Leu	Asp	Thr	Ser	Lys	Lys	Ser	Ser	Ser	Leu	Leu	Ile
					85					90					95	
	Thr	Ala	Ser	Arg	Ala	Ala	Asp	Thr	Ala	Ser	Tyr	Phe	Cys	Ala	Thr	Gly

		100		105		110											
	Arg	Met	Asp	Ser	Ser	Tyr	Lys	Leu	Ile	Phe	Gly	Ser	Gly	Thr	Arg	Leu	
			115					120					125				
	Leu	Val	Arg	Pro	Asp	Ile	Gln	Asn	Pro	Asp	Pro	Ala	Val	Tyr	Gln	Leu	
5		130					135					140					
	Arg	Asp	Ser	Lys	Ser	Ser	Asp	Lys	Ser	Val	Cys	Leu	Phe	Thr	Asp	Phe	
	145					150					155					160	
	Asp	Ser	Gln	Thr	Asn	Val	Ser	Gln	Ser	Lys	Asp	Ser	Asp	Val	Tyr	Ile	
					165					170					175		
10	Thr	Asp	Lys	Thr	Val	Leu	Asp	Met	Arg	Ser	Met	Asp	Phe	Lys	Ser	Asn	
					180					185				190			
	Ser	Ala	Val	Ala	Trp	Ser	Asn	Lys	Ser	Asp	Phe	Ala	Cys	Ala	Asn	Ala	
			195					200					205				
	Phe	Asn	Asn	Ser	Ile	Ile	Pro	Glu	Asp	Thr	Phe	Phe	Pro	Ser	Pro	Glu	
15		210					215					220					
	Ser	Ser	Cys	Asp	Val	Lys	Leu	Val	Glu	Lys	Ser	Phe	Glu	Thr	Asp	Thr	
	225					230					235					240	
	Asn	Leu	Asn	Phe	Gln	Asn	Leu	Ser	Val	Ile	Gly	Phe	Arg	Ile	Leu	Leu	
					245					250					255		
20	Leu	Lys	Val	Ala	Gly	Phe	Asn	Leu	Leu	Met	Thr	Leu	Arg	Leu	Trp	Ser	
					260					265				270			
	Ser	Gly	Ser	Gly	Ala	Thr	Asn	Phe	Ser	Leu	Leu	Lys	Gln	Ala	Gly	Asp	
					275					280				285			
	Val	Glu	Glu	Asn	Pro	Gly	Pro	Met	Asp	Ser	Trp	Thr	Phe	Cys	Cys	Val	

	290		295		300														
	Ser	Leu	Cys	Ile	Leu	Val	Ala	Lys	His	Thr	Asp	Ala	Gly	Val	Ile	Gln			
	305						310					315				320			
	Ser	Pro	Arg	His	Glu	Val	Thr	Glu	Met	Gly	Gln	Glu	Val	Thr	Leu	Arg			
5					325					330					335				
	Cys	Lys	Pro	Ile	Ser	Gly	His	Asn	Ser	Leu	Phe	Trp	Tyr	Arg	Gln	Thr			
					340					345				350					
	Met	Met	Arg	Gly	Leu	Glu	Leu	Leu	Ile	Tyr	Phe	Asn	Asn	Asn	Val	Pro			
			355					360					365						
10	Ile	Asp	Asp	Ser	Gly	Met	Pro	Glu	Asp	Arg	Phe	Ser	Ala	Lys	Met	Pro			
		370					375					380							
	Asn	Ala	Ser	Phe	Ser	Thr	Leu	Lys	Ile	Gln	Pro	Ser	Glu	Pro	Arg	Asp			
	385					390				395				400					
	Ser	Ala	Val	Tyr	Phe	Cys	Ala	Ser	Ser	Glu	Gln	Leu	Ser	Gly	Asn	Thr			
15					405					410				415					
	Ile	Tyr	Phe	Gly	Glu	Gly	Ser	Trp	Leu	Thr	Val	Val	Glu	Asp	Leu	Asn			
				420				425				430							
	Lys	Val	Phe	Pro	Pro	Glu	Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu			
		435					440				445								
20	Ile	Ser	His	Thr	Gln	Lys	Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe			
		450					455				460								
	Phe	Pro	Asp	His	Val	Glu	Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val			
	465				470				475				480						
	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala			

					485					490						495	
	Leu	Asn	Asp	Ser	Arg	Tyr	Cys	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	
				500					505					510			
	Thr	Phe	Trp	Gln	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	
5			515					520					525				
	Tyr	Gly	Leu	Ser	Glu	Asn	Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	
		530					535					540					
	Val	Thr	Gln	Ile	Val	Ser	Ala	Glu	Ala	Trp	Gly	Arg	Ala	Asp	Cys	Gly	
	545					550					555					560	
10	Phe	Thr	Ser	Val	Ser	Tyr	Gln	Gln	Gly	Val	Leu	Ser	Ala	Thr	Ile	Leu	
				565						570					575		
	Tyr	Glu	Ile	Leu	Leu	Gly	Lys	Ala	Thr	Leu	Tyr	Ala	Val	Leu	Val	Ser	
			580						585					590			
	Ala	Leu	Val	Leu	Met	Ala	Met	Val	Lys	Arg	Lys	Asp	Phe				
15			595					600					605				

<223> Descripción de Secuencia Artificial: Polipéptido

Sintético

<400> 539

	Met	Glu	Thr	Leu	Leu	Gly	Val	Ser	Leu	Val	Ile	Leu	Trp	Leu	Gln	Leu
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	Ala	Arg	Val	Asn	Ser	Gln	Gln	Gly	Glu	Glu	Asp	Pro	Gln	Ala	Leu	Ser
				20					25					30		
	Ile	Gln	Glu	Gly	Glu	Asn	Ala	Thr	Met	Asn	Cys	Ser	Tyr	Lys	Thr	Ser
			35					40					45			
10	Ile	Asn	Asn	Leu	Gln	Trp	Tyr	Arg	Gln	Asn	Ser	Gly	Arg	Gly	Leu	Val
		50					55					60				
	His	Leu	Ile	Leu	Ile	Arg	Ser	Asn	Glu	Arg	Glu	Lys	His	Ser	Gly	Arg
	65				70				75				80			
	Leu	Arg	Val	Thr	Leu	Asp	Thr	Ser	Lys	Lys	Ser	Ser	Ser	Leu	Leu	Ile
15				85					90				95			
	Thr	Ala	Ser	Arg	Ala	Ala	Asp	Thr	Ala	Ser	Tyr	Phe	Cys	Ala	Thr	Gly
				100					105				110			
	Arg	Met	Asp	Ser	Ser	Tyr	Lys	Leu	Ile	Phe	Gly	Ser	Gly	Thr	Arg	Leu
			115				120					125				
20	Leu	Val	Arg	Pro	Asp	Ile	Gln	Asn	Pro	Asp	Pro	Ala	Val	Tyr	Gln	Leu
		130					135					140				
	Arg	Asp	Ser	Lys	Ser	Ser	Asp	Lys	Ser	Val	Cys	Leu	Phe	Thr	Asp	Phe
	145				150				155				160			
	Asp	Ser	Gln	Thr	Asn	Val	Ser	Gln	Ser	Lys	Asp	Ser	Asp	Val	Tyr	Ile

					165					170					175	
	Thr	Asp	Lys	Thr	Val	Leu	Asp	Met	Arg	Ser	Met	Asp	Phe	Lys	Ser	Asn
					180					185					190	
	Ser	Ala	Val	Ala	Trp	Ser	Asn	Lys	Ser	Asp	Phe	Ala	Cys	Ala	Asn	Ala
5			195					200					205			
	Phe	Asn	Asn	Ser	Ile	Ile	Pro	Glu	Asp	Thr	Phe	Phe	Pro	Ser	Pro	Glu
			210					215					220			
	Ser	Ser	Cys	Asp	Val	Lys	Leu	Val	Glu	Lys	Ser	Phe	Glu	Thr	Asp	Thr
			225				230					235				240
10	Asn	Leu	Asn	Phe	Gln	Asn	Leu	Ser	Val	Ile	Gly	Phe	Arg	Ile	Leu	Leu
					245						250				255	
	Leu	Lys	Val	Ala	Gly	Phe	Asn	Leu	Leu	Met	Thr	Leu	Arg	Leu	Trp	Ser
					260						265				270	
	Ser															

15 **SEQ ID NO: 540**

<210> 540

<211> 310

<212> PRT

<213> Secuencia Artificial

20 <220>

<223> Descripción de Secuencia Artificial: Polipéptido

Sintético

<400> 540

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				20					25					30		
	Glu	Met	Gly	Gln	Glu	Val	Thr	Leu	Arg	Cys	Lys	Pro	Ile	Ser	Gly	His
5			35					40					45			
	Asn	Ser	Leu	Phe	Trp	Tyr	Arg	Gln	Thr	Met	Met	Arg	Gly	Leu	Glu	Leu
			50				55					60				
	Leu	Ile	Tyr	Phe	Asn	Asn	Asn	Val	Pro	Ile	Asp	Asp	Ser	Gly	Met	Pro
	65					70				75				80		
10	Glu	Asp	Arg	Phe	Ser	Ala	Lys	Met	Pro	Asn	Ala	Ser	Phe	Ser	Thr	Leu
					85					90				95		
	Lys	Ile	Gln	Pro	Ser	Glu	Pro	Arg	Asp	Ser	Ala	Val	Tyr	Phe	Cys	Ala
				100				105					110			
	Ser	Ser	Glu	Gln	Leu	Ser	Gly	Asn	Thr	Ile	Tyr	Phe	Gly	Glu	Gly	Ser
15			115					120					125			
	Trp	Leu	Thr	Val	Val	Glu	Asp	Leu	Asn	Lys	Val	Phe	Pro	Pro	Glu	Val
			130				135					140				
	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys	Ala
	145				150					155				160		
20	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Phe	Pro	Asp	His	Val	Glu	Leu
					165				170				175			
	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp
				180				185					190			
	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr	Cys

	195		200		205											
	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	Arg
	210		215		220											
	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	Asp
5	225		230		235		240									
	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	Ala
			245		250		255									
	Glu	Ala	Trp	Gly	Arg	Ala	Asp	Cys	Gly	Phe	Thr	Ser	Val	Ser	Tyr	Gln
			260		265		270									
10	Gln	Gly	Val	Leu	Ser	Ala	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu	Gly	Lys
			275		280		285									
	Ala	Thr	Leu	Tyr	Ala	Val	Leu	Val	Ser	Ala	Leu	Val	Leu	Met	Ala	Met
			290		295		300									
	Val	Lys	Arg	Lys	Asp	Phe										
15	305		310													

SEQ ID NO: 541

<210> 541

<211> 252

20 <212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido

Sintético

<400> 541

	Gln	Gln	Gly	Glu	Glu	Asp	Pro	Gln	Ala	Leu	Ser	Ile	Gln	Glu	Gly	Glu
	1				5					10					15	
	Asn	Ala	Thr	Met	Asn	Cys	Ser	Tyr	Lys	Thr	Ser	Ile	Asn	Asn	Leu	Gln
5				20					25					30		
	Trp	Tyr	Arg	Gln	Asn	Ser	Gly	Arg	Gly	Leu	Val	His	Leu	Ile	Leu	Ile
				35				40					45			
	Arg	Ser	Asn	Glu	Arg	Glu	Lys	His	Ser	Gly	Arg	Leu	Arg	Val	Thr	Leu
		50					55					60				
10	Asp	Thr	Ser	Lys	Lys	Ser	Ser	Ser	Leu	Leu	Ile	Thr	Ala	Ser	Arg	Ala
	65					70					75				80	
	Ala	Asp	Thr	Ala	Ser	Tyr	Phe	Cys	Ala	Thr	Gly	Arg	Met	Asp	Ser	Ser
					85					90				95		
	Tyr	Lys	Leu	Ile	Phe	Gly	Ser	Gly	Thr	Arg	Leu	Leu	Val	Arg	Pro	Asp
15				100					105					110		
	Ile	Gln	Asn	Pro	Asp	Pro	Ala	Val	Tyr	Gln	Leu	Arg	Asp	Ser	Lys	Ser
				115				120					125			
	Ser	Asp	Lys	Ser	Val	Cys	Leu	Phe	Thr	Asp	Phe	Asp	Ser	Gln	Thr	Asn
		130					135					140				
20	Val	Ser	Gln	Ser	Lys	Asp	Ser	Asp	Val	Tyr	Ile	Thr	Asp	Lys	Thr	Val
	145					150					155				160	
	Leu	Asp	Met	Arg	Ser	Met	Asp	Phe	Lys	Ser	Asn	Ser	Ala	Val	Ala	Trp
					165					170				175		
	Ser	Asn	Lys	Ser	Asp	Phe	Ala	Cys	Ala	Asn	Ala	Phe	Asn	Asn	Ser	Ile

	180	185	190
	Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp Val		
	195	200	205
	Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe Gln		
5	210	215	220
	Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val Ala Gly		
	225	230	235
	Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser		
	245	250	
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	<210> 542		
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15	<220>		
	<223> Descripción de Secuencia Artificial: Polipéptido		
	Sintético		
	<400> 542		
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	1	5	10
	Val Thr Leu Arg Cys Lys Pro Ile Ser Gly His Asn Ser Leu Phe Trp		
	20	25	30
	Tyr Arg Gln Thr Met Met Arg Gly Leu Glu Leu Leu Ile Tyr Phe Asn		

		35		40		45											
		Asn	Asn	Val	Pro	Ile	Asp	Asp	Ser	Gly	Met	Pro	Glu	Asp	Arg	Phe	Ser
		50					55					60					
		Ala	Lys	Met	Pro	Asn	Ala	Ser	Phe	Ser	Thr	Leu	Lys	Ile	Gln	Pro	Ser
5	65					70					75				80		
		Glu	Pro	Arg	Asp	Ser	Ala	Val	Tyr	Phe	Cys	Ala	Ser	Ser	Glu	Gln	Leu
					85					90				95			
		Ser	Gly	Asn	Thr	Ile	Tyr	Phe	Gly	Glu	Gly	Ser	Trp	Leu	Thr	Val	Val
				100					105				110				
10		Glu	Asp	Leu	Asn	Lys	Val	Phe	Pro	Pro	Glu	Val	Ala	Val	Phe	Glu	Pro
				115					120				125				
		Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys	Ala	Thr	Leu	Val	Cys	Leu
				130				135				140					
		Ala	Thr	Gly	Phe	Phe	Pro	Asp	His	Val	Glu	Leu	Ser	Trp	Trp	Val	Asn
15	145					150					155				160		
		Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	Gln	Pro	Leu	Lys
					165					170				175			
		Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr	Cys	Leu	Ser	Ser	Arg	Leu
				180					185				190				
20		Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys
				195					200				205				
		Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	Asp	Glu	Trp	Thr	Gln	Asp
				210				215				220					
		Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	Ala	Glu	Ala	Trp	Gly	Arg

	225		230		235		240									
	Ala	Asp	Cys	Gly	Phe	Thr	Ser	Val	Ser	Tyr	Gln	Gln	Gly	Val	Leu	Ser
				245					250						255	
	Ala	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu	Gly	Lys	Ala	Thr	Leu	Tyr	Ala
5			260						265						270	
	Val	Leu	Val	Ser	Ala	Leu	Val	Leu	Met	Ala	Met	Val	Lys	Arg	Lys	Asp
			275						280						285	
	Phe															

SEQ ID NO: 543

10 <210> 543

<211> 593

<212> PRT

<213> Secuencia Artificial

<220>

15 <223> Descripción de Secuencia Artificial: Polipéptido Sintético

<400> 543

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				20					25					30		
	Val	Pro	Glu	Gly	Ala	Met	Ala	Ser	Leu	Asn	Cys	Thr	Ile	Ser	Asp	Ser
			35						40					45		
	Ala	Ser	Gln	Ser	Ile	Trp	Trp	Tyr	Gln	Gln	Asn	Pro	Gly	Lys	Gly	Pro

	50		55		60											
	Lys	Ala	Leu	Ile	Ser	Ile	Phe	Ser	Asn	Gly	Asn	Lys	Lys	Glu	Gly	Arg
	65					70					75					80
	Leu	Thr	Val	Tyr	Leu	Asn	Arg	Ala	Ser	Leu	His	Val	Ser	Leu	His	Ile
5					85					90					95	
	Arg	Asp	Ser	His	Pro	Ser	Asp	Ser	Ala	Val	Tyr	Leu	Cys	Ala	Ala	Ser
					100				105					110		
	Leu	Ala	Gly	Ser	Trp	Gln	Leu	Ile	Phe	Gly	Ser	Gly	Thr	Gln	Leu	Thr
			115					120					125			
10	Val	Met	Pro	Asp	Ile	Gln	Asn	Pro	Glu	Pro	Ala	Val	Tyr	Gln	Leu	Lys
		130					135					140				
	Asp	Pro	Arg	Ser	Gln	Asp	Ser	Thr	Leu	Cys	Leu	Phe	Thr	Asp	Phe	Asp
	145				150					155					160	
	Ser	Gln	Ile	Asn	Val	Pro	Lys	Thr	Met	Glu	Ser	Gly	Thr	Phe	Ile	Thr
15					165				170					175		
	Asp	Lys	Thr	Val	Leu	Asp	Met	Lys	Ala	Met	Asp	Ser	Lys	Ser	Asn	Gly
					180				185					190		
	Ala	Ile	Ala	Trp	Ser	Asn	Gln	Thr	Ser	Phe	Thr	Cys	Gln	Asp	Ile	Phe
		195					200					205				
20	Lys	Glu	Thr	Asn	Ala	Thr	Tyr	Pro	Ser	Ser	Asp	Val	Pro	Cys	Asp	Ala
		210					215					220				
	Thr	Leu	Thr	Glu	Lys	Ser	Phe	Glu	Thr	Asp	Met	Asn	Leu	Asn	Phe	Gln
	225				230				235						240	
	Asn	Leu	Ser	Val	Met	Gly	Leu	Arg	Ile	Leu	Leu	Leu	Lys	Val	Ala	Gly

					245					250					255	
	Phe	Asn	Leu	Leu	Met	Thr	Leu	Arg	Leu	Trp	Ser	Ser	Ala	Thr	Asn	Phe
					260					265					270	
	Ser	Leu	Leu	Lys	Gln	Ala	Gly	Asp	Val	Glu	Glu	Asn	Pro	Gly	Pro	Met
5			275					280					285			
	Gly	Ser	Ile	Phe	Leu	Ser	Cys	Leu	Ala	Val	Cys	Leu	Leu	Val	Ala	Gly
		290					295					300				
	Pro	Val	Asp	Pro	Lys	Ile	Ile	Gln	Lys	Pro	Lys	Tyr	Leu	Val	Ala	Val
	305					310					315				320	
10	Thr	Gly	Ser	Glu	Lys	Ile	Leu	Ile	Cys	Glu	Gln	Tyr	Leu	Gly	His	Asn
					325					330				335		
	Ala	Met	Tyr	Trp	Tyr	Arg	Gln	Ser	Ala	Lys	Lys	Pro	Leu	Glu	Phe	Met
			340						345				350			
	Phe	Ser	Tyr	Ser	Tyr	Gln	Lys	Leu	Met	Asp	Asn	Gln	Thr	Ala	Ser	Ser
15			355					360					365			
	Arg	Phe	Gln	Pro	Gln	Ser	Ser	Lys	Lys	Asn	His	Leu	Asp	Leu	Gln	Ile
		370					375					380				
	Thr	Ala	Leu	Lys	Pro	Asp	Asp	Ser	Ala	Thr	Tyr	Phe	Cys	Ala	Ser	Ser
	385					390					395				400	
20	Gln	Gly	Gly	Thr	Thr	Asn	Ser	Asp	Tyr	Thr	Phe	Gly	Ser	Gly	Thr	Arg
					405					410				415		
	Leu	Leu	Val	Ile	Glu	Asp	Leu	Arg	Asn	Val	Thr	Pro	Pro	Lys	Val	Ser
			420						425					430		
	Leu	Phe	Glu	Pro	Ser	Lys	Ala	Glu	Ile	Ala	Asn	Lys	Gln	Lys	Ala	Thr

	435		440		445														
	Leu	Val	Cys	Leu	Ala	Arg	Gly	Phe	Phe	Pro	Asp	His	Val	Glu	Leu	Ser			
	450						455						460						
	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro			
5	465					470					475					480			
	Gln	Ala	Tyr	Lys	Glu	Ser	Asn	Tyr	Ser	Tyr	Cys	Leu	Ser	Ser	Arg	Leu			
					485					490					495				
	Arg	Val	Ser	Ala	Thr	Phe	Trp	His	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys			
				500					505					510					
10	Gln	Val	Gln	Phe	His	Gly	Leu	Ser	Glu	Glu	Asp	Lys	Trp	Pro	Glu	Gly			
				515					520					525					
	Ser	Pro	Lys	Pro	Val	Thr	Gln	Asn	Ile	Ser	Ala	Glu	Ala	Trp	Gly	Arg			
				530					535					540					
	Ala	Asp	Cys	Gly	Ile	Thr	Ser	Ala	Ser	Tyr	His	Gln	Gly	Val	Leu	Ser			
15	545					550					555					560			
	Ala	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu	Gly	Lys	Ala	Thr	Leu	Tyr	Ala			
					565					570				575					
	Val	Leu	Val	Ser	Gly	Leu	Val	Leu	Met	Ala	Met	Val	Lys	Arg	Lys	Asn			
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20	Ser																		

SEQ ID NO: 544

<210> 544

<211> 268

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido

Sintético

5 <400> 544

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					20				25					30		
10	Val	Pro	Glu	Gly	Ala	Met	Ala	Ser	Leu	Asn	Cys	Thr	Ile	Ser	Asp	Ser
					35				40					45		
	Ala	Ser	Gln	Ser	Ile	Trp	Trp	Tyr	Gln	Gln	Asn	Pro	Gly	Lys	Gly	Pro
					50				55					60		
	Lys	Ala	Leu	Ile	Ser	Ile	Phe	Ser	Asn	Gly	Asn	Lys	Lys	Glu	Gly	Arg
15	65				70				75					80		
	Leu	Thr	Val	Tyr	Leu	Asn	Arg	Ala	Ser	Leu	His	Val	Ser	Leu	His	Ile
					85				90					95		
	Arg	Asp	Ser	His	Pro	Ser	Asp	Ser	Ala	Val	Tyr	Leu	Cys	Ala	Ala	Ser
					100				105					110		
20	Leu	Ala	Gly	Ser	Trp	Gln	Leu	Ile	Phe	Gly	Ser	Gly	Thr	Gln	Leu	Thr
					115				120					125		
	Val	Met	Pro	Asp	Ile	Gln	Asn	Pro	Glu	Pro	Ala	Val	Tyr	Gln	Leu	Lys
					130				135					140		
	Asp	Pro	Arg	Ser	Gln	Asp	Ser	Thr	Leu	Cys	Leu	Phe	Thr	Asp	Phe	Asp

	145		150		155		160									
	Ser	Gln	Ile	Asn	Val	Pro	Lys	Thr	Met	Glu	Ser	Gly	Thr	Phe	Ile	Thr
				165					170					175		
	Asp	Lys	Thr	Val	Leu	Asp	Met	Lys	Ala	Met	Asp	Ser	Lys	Ser	Asn	Gly
5			180						185					190		
	Ala	Ile	Ala	Trp	Ser	Asn	Gln	Thr	Ser	Phe	Thr	Cys	Gln	Asp	Ile	Phe
			195					200					205			
	Lys	Glu	Thr	Asn	Ala	Thr	Tyr	Pro	Ser	Ser	Asp	Val	Pro	Cys	Asp	Ala
		210				215					220					
10	Thr	Leu	Thr	Glu	Lys	Ser	Phe	Glu	Thr	Asp	Met	Asn	Leu	Asn	Phe	Gln
	225				230					235				240		
	Asn	Leu	Ser	Val	Met	Gly	Leu	Arg	Ile	Leu	Leu	Leu	Lys	Val	Ala	Gly
				245					250					255		
	Phe	Asn	Leu	Leu	Met	Thr	Leu	Arg	Leu	Trp	Ser	Ser				
15			260						265							

SEQ ID NO: 545

<210> 545

20 <211> 306

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido

Sintético

<400> 545

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5	Gly	Pro	Val	Asp	Pro	Lys	Ile	Ile	Gln	Lys	Pro	Lys	Tyr	Leu	Val	Ala
				20					25					30		
	Val	Thr	Gly	Ser	Glu	Lys	Ile	Leu	Ile	Cys	Glu	Gln	Tyr	Leu	Gly	His
				35				40					45			
	Asn	Ala	Met	Tyr	Trp	Tyr	Arg	Gln	Ser	Ala	Lys	Lys	Pro	Leu	Glu	Phe
10		50					55					60				
	Met	Phe	Ser	Tyr	Ser	Tyr	Gln	Lys	Leu	Met	Asp	Asn	Gln	Thr	Ala	Ser
	65					70					75				80	
	Ser	Arg	Phe	Gln	Pro	Gln	Ser	Ser	Lys	Lys	Asn	His	Leu	Asp	Leu	Gln
					85					90					95	
15	Ile	Thr	Ala	Leu	Lys	Pro	Asp	Asp	Ser	Ala	Thr	Tyr	Phe	Cys	Ala	Ser
				100					105					110		
	Ser	Gln	Gly	Gly	Thr	Thr	Asn	Ser	Asp	Tyr	Thr	Phe	Gly	Ser	Gly	Thr
				115				120					125			
	Arg	Leu	Leu	Val	Ile	Glu	Asp	Leu	Arg	Asn	Val	Thr	Pro	Pro	Lys	Val
20		130					135					140				
	Ser	Leu	Phe	Glu	Pro	Ser	Lys	Ala	Glu	Ile	Ala	Asn	Lys	Gln	Lys	Ala
	145					150					155				160	
	Thr	Leu	Val	Cys	Leu	Ala	Arg	Gly	Phe	Phe	Pro	Asp	His	Val	Glu	Leu
					165					170				175		

	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	
	180				185				190								
	Pro	Gln	Ala	Tyr	Lys	Glu	Ser	Asn	Tyr	Ser	Tyr	Cys	Leu	Ser	Ser	Arg	
	195				200				205								
5	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	His	Asn	Pro	Arg	Asn	His	Phe	Arg	
	210				215				220								
	Cys	Gln	Val	Gln	Phe	His	Gly	Leu	Ser	Glu	Glu	Asp	Lys	Trp	Pro	Glu	
	225				230				235				240				
	Gly	Ser	Pro	Lys	Pro	Val	Thr	Gln	Asn	Ile	Ser	Ala	Glu	Ala	Trp	Gly	
10	245				250				255								
	Arg	Ala	Asp	Cys	Gly	Ile	Thr	Ser	Ala	Ser	Tyr	His	Gln	Gly	Val	Leu	
	260				265				270								
	Ser	Ala	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu	Gly	Lys	Ala	Thr	Leu	Tyr	
	275				280				285								
15	Ala	Val	Leu	Val	Ser	Gly	Leu	Val	Leu	Met	Ala	Met	Val	Lys	Arg	Lys	
	290				295				300								
	Asn	Ser															
	305																

20 **SEQ ID NO: 546**

<210> 546

$\langle 211 \rangle$ 243

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido

Sintético

5 <400> 546

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	Asn	Cys	Thr	Ile	Ser	Asp	Ser	Ala	Ser	Gln	Ser	Ile	Trp	Trp	Tyr	Gln
				20				25						30		
10	Gln	Asn	Pro	Gly	Lys	Gly	Pro	Lys	Ala	Leu	Ile	Ser	Ile	Phe	Ser	Asn
			35					40					45			
	Gly	Asn	Lys	Lys	Glu	Gly	Arg	Leu	Thr	Val	Tyr	Leu	Asn	Arg	Ala	Ser
		50					55					60				
	Leu	His	Val	Ser	Leu	His	Ile	Arg	Asp	Ser	His	Pro	Ser	Asp	Ser	Ala
15	65				70					75					80	
	Val	Tyr	Leu	Cys	Ala	Ala	Ser	Leu	Ala	Gly	Ser	Trp	Gln	Leu	Ile	Phe
					85					90					95	
	Gly	Ser	Gly	Thr	Gln	Leu	Thr	Val	Met	Pro	Asp	Ile	Gln	Asn	Pro	Glu
					100				105					110		
20	Pro	Ala	Val	Tyr	Gln	Leu	Lys	Asp	Pro	Arg	Ser	Gln	Asp	Ser	Thr	Leu
					115				120					125		
	Cys	Leu	Phe	Thr	Asp	Phe	Asp	Ser	Gln	Ile	Asn	Val	Pro	Lys	Thr	Met
		130						135					140			
	Glu	Ser	Gly	Thr	Phe	Ile	Thr	Asp	Lys	Thr	Val	Leu	Asp	Met	Lys	Ala

	145		150		155		160									
	Met	Asp	Ser	Lys	Ser	Asn	Gly	Ala	Ile	Ala	Trp	Ser	Asn	Gln	Thr	Ser
					165					170					175	
	Phe	Thr	Cys	Gln	Asp	Ile	Phe	Lys	Glu	Thr	Asn	Ala	Thr	Tyr	Pro	Ser
5				180					185					190		
	Ser	Asp	Val	Pro	Cys	Asp	Ala	Thr	Leu	Thr	Glu	Lys	Ser	Phe	Glu	Thr
				195					200					205		
	Asp	Met	Asn	Leu	Asn	Phe	Gln	Asn	Leu	Ser	Val	Met	Gly	Leu	Arg	Ile
				210					215					220		
10	Leu	Leu	Leu	Lys	Val	Ala	Gly	Phe	Asn	Leu	Leu	Met	Thr	Leu	Arg	Leu
				225					230					235		240
	Trp	Ser	Ser													

SEQ ID NO: 547

<210> 547

15 <211> 285

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido

20 Sintético

<400> 547

Lys	Ile	Ile	Gln	Lys	Pro	Lys	Tyr	Leu	Val	Ala	Val	Thr	Gly	Ser	Glu
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Lys	Ile	Leu	Ile	Cys	Glu	Gln	Tyr	Leu	Gly	His	Asn	Ala	Met	Tyr	Trp

		20		25		30													
		Tyr	Arg	Gln	Ser	Ala	Lys	Lys	Pro	Leu	Glu	Phe	Met	Phe	Ser	Tyr	Ser		
		35							40					45					
		Tyr	Gln	Lys	Leu	Met	Asp	Asn	Gln	Thr	Ala	Ser	Ser	Arg	Phe	Gln	Pro		
5		50						55					60						
		Gln	Ser	Ser	Lys	Lys	Asn	His	Leu	Asp	Leu	Gln	Ile	Thr	Ala	Leu	Lys		
		65					70					75				80			
		Pro	Asp	Asp	Ser	Ala	Thr	Tyr	Phe	Cys	Ala	Ser	Ser	Gln	Gly	Gly	Thr		
					85					90				95					
10		Thr	Asn	Ser	Asp	Tyr	Thr	Phe	Gly	Ser	Gly	Thr	Arg	Leu	Leu	Val	Ile		
					100					105				110					
		Glu	Asp	Leu	Arg	Asn	Val	Thr	Pro	Pro	Lys	Val	Ser	Leu	Phe	Glu	Pro		
					115				120				125						
		Ser	Lys	Ala	Glu	Ile	Ala	Asn	Lys	Gln	Lys	Ala	Thr	Leu	Val	Cys	Leu		
15		130						135					140						
		Ala	Arg	Gly	Phe	Phe	Pro	Asp	His	Val	Glu	Leu	Ser	Trp	Trp	Val	Asn		
		145					150				155			160					
		Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	Gln	Ala	Tyr	Lys		
					165				170				175						
20		Glu	Ser	Asn	Tyr	Ser	Tyr	Cys	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala		
					180				185				190						
		Thr	Phe	Trp	His	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe		
					195				200				205						
		His	Gly	Leu	Ser	Glu	Glu	Asp	Lys	Trp	Pro	Glu	Gly	Ser	Pro	Lys	Pro		

	210	215	220	
	Val Thr Gln Asn Ile Ser Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly			
	225	230	235	240
	Ile Thr Ser Ala Ser Tyr His Gln Gly Val Leu Ser Ala Thr Ile Leu			
5	245	250	255	
	Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val Leu Val Ser			
	260	265	270	
	Gly Leu Val Leu Met Ala Met Val Lys Arg Lys Asn Ser			
	275	280	285	
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	<210> 548			
	<211> 1782			
	<212> ADN			
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15	<220>			
	<223> Descripción de Secuencia Artificial: Polinucleótido			
	Sintético			
	<400> 548			
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	ctcaactgca ctatcagcga cagtgttct cagtccatct ggtggtacca acagaatcct	180		
	gggaaaggcc ccaaagcact aatatccata ttctctaata gcaacaagaa agaaggcaga	240		
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	cccagtgact ccgccgtcta cctctgtgca gcgagccttg cgggcagctg gcaactcatc	360		
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agcttcacct gccaaagatat cttcaaagag accaacgccca cctaccccag ttcagacggt 660
5 ccctgtgatg ccacgttgac cgagaaaagc tttgaaacag atatgaacct aaactttcaa 720

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gcaaccatcc tctatgagat cctactggg aaggccacc tatatgctgt gctggtcagt 1740
ggcctggtgc tgatggccat ggtcaagaga aaaaattcct ga 1782

5

SEQ ID NO: 549

<210> 549

<211> 458

<212> PRT

10 <213> Homo sapiens

<400> 549

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15 20 25 30

Lys Gly Asp Thr Val Glu Leu Thr Cys Thr Ala Ser Gln Lys Lys Ser

35 40 45

Ile Gln Phe His Trp Lys Asn Ser Asn Gln Ile Lys Ile Leu Gly Asn

50 55 60

20 Gln Gly Ser Phe Leu Thr Lys Gly Pro Ser Lys Leu Asn Asp Arg Ala

65 70 75 80

Asp Ser Arg Arg Ser Leu Trp Asp Gln Gly Asn Phe Pro Leu Ile Ile

85 90 95

Lys Asn Leu Lys Ile Glu Asp Ser Asp Thr Tyr Ile Cys Glu Val Glu

25 100 105 110

	Asp	Gln	Lys	Glu	Glu	Val	Gln	Leu	Leu	Val	Phe	Gly	Leu	Thr	Ala	Asn	
				115				120					125				
	Ser	Gly	Thr	His	Leu	Leu	Gln	Gly	Gln	Ser	Leu	Thr	Leu	Thr	Leu	Glu	
				130				135					140				
5	Ser	Pro	Pro	Gly	Ser	Ser	Pro	Ser	Val	Gln	Cys	Arg	Ser	Pro	Arg	Gly	
	145						150					155				160	
	Lys	Asn	Ile	Gln	Gly	Gly	Lys	Thr	Leu	Ser	Val	Ser	Gln	Leu	Glu	Leu	
						165					170				175		
	Gln	Asp	Ser	Gly	Thr	Trp	Thr	Cys	Thr	Val	Leu	Gln	Asn	Gln	Lys	Lys	
10				180					185					190			
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				195					200					205			
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				210				215					220				
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	225						230					235				240	
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20				260					265					270			
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				275					280					285			
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5 **SEQ ID NO: 550**

<210> 550

<211> 1661

<212> ADN

<213> Homo sapiens

10 <400> 550

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5 **SEQ ID NO: 551**

<210> 551

<211> 457

<212> PRT

<213> Mus sp.

10 <400> 551

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	Ile	Thr	Val	Phe	Thr	Trp	Lys	Phe	Ser	Asp	Gln	Arg	Lys	Ile	Leu	Gly
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	Leu	Ile	Ile	Asn	Lys	Leu	Lys	Met	Glu	Asp	Ser	Gln	Thr	Tyr	Ile	Cys
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				405					410					415		
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<211> 1620

<212> ADN

<213> Mus sp.

<400> 552

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SEQ ID NO: 553

5 <210> 553

<211> 773

<212> PRT

<213> Secuencia Artificial

<220>

10 <223> Descripción de Secuencia Artificial: Poliéptido

Sintético

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SEQ ID NO: 554

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<211> 2322

<212> ADN

<213> Secuencia Artificial

<220>

10 <223> Descripción de Secuencia Artificial: Polinucleótido

Sintético

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 20 tgctacttgc tagatggaat cctcttcatc tacggagtca tcatcacagc cctgtacctg 1980
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 25 aggcggagag gcaaggggca cgatggcctt taccagggtc tcagcactgc caccaaggac 2280
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SEQ ID NO: 555

5 <210> 555

<211> 550

<212> PRT

<213> Desconocido

<220>

10 <223> Description del desconocido:

Secuencia de proteína luciferasa

<400> 555

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	Leu	Glu	Asp	Gly	Thr	Ala	Gly	Glu	Gln	Leu	His	Lys	Ala	Met	Lys	Arg
					20					25					30	
	Tyr	Ala	Leu	Val	Pro	Gly	Thr	Ile	Ala	Phe	Thr	Asp	Ala	His	Ile	Glu
20					35					40					45	
	Val	Asn	Ile	Thr	Tyr	Ala	Glu	Tyr	Phe	Glu	Met	Ser	Val	Arg	Leu	Ala
					50					55					60	
	Glu	Ala	Met	Lys	Arg	Tyr	Gly	Leu	Asn	Thr	Asn	His	Arg	Ile	Val	Val
					65					70					75	
25	Cys	Ser	Glu	Asn	Ser	Leu	Gln	Phe	Phe	Met	Pro	Val	Leu	Gly	Ala	Leu

					85					90				95		
	Phe	Ile	Gly	Val	Ala	Val	Ala	Pro	Ala	Asn	Asp	Ile	Tyr	Asn	Glu	Arg
					100				105				110			
	Glu	Leu	Leu	Asn	Ser	Met	Asn	Ile	Ser	Gln	Pro	Thr	Val	Val	Phe	Val
5			115					120					125			
	Ser	Lys	Lys	Gly	Leu	Gln	Lys	Ile	Leu	Asn	Val	Gln	Lys	Lys	Leu	Pro
			130				135					140				
	Ile	Ile	Gln	Lys	Ile	Ile	Ile	Met	Asp	Ser	Lys	Thr	Asp	Tyr	Gln	Gly
	145					150				155					160	
10	Phe	Gln	Ser	Met	Tyr	Thr	Phe	Val	Thr	Ser	His	Leu	Pro	Pro	Gly	Phe
					165					170				175		
	Asn	Glu	Tyr	Asp	Phe	Val	Pro	Glu	Ser	Phe	Asp	Arg	Asp	Lys	Thr	Ile
			180						185				190			
	Ala	Leu	Ile	Met	Asn	Ser	Ser	Gly	Ser	Thr	Gly	Leu	Pro	Lys	Gly	Val
15			195					200					205			
	Ala	Leu	Pro	His	Arg	Thr	Ala	Cys	Val	Arg	Phe	Ser	His	Ala	Arg	Asp
			210				215					220				
	Pro	Ile	Phe	Gly	Asn	Gln	Ile	Ile	Pro	Asp	Thr	Ala	Ile	Leu	Ser	Val
	225					230				235				240		
20	Val	Pro	Phe	His	His	Gly	Phe	Gly	Met	Phe	Thr	Thr	Leu	Gly	Tyr	Leu
					245					250				255		
	Ile	Cys	Gly	Phe	Arg	Val	Val	Leu	Met	Tyr	Arg	Phe	Glu	Glu	Glu	Leu
			260						265				270			
	Phe	Leu	Arg	Ser	Leu	Gln	Asp	Tyr	Lys	Ile	Gln	Ser	Ala	Leu	Leu	Val

	275		280		285											
	Pro	Thr	Leu	Phe	Ser	Phe	Phe	Ala	Lys	Ser	Thr	Leu	Ile	Asp	Lys	Tyr
	290		295		300											
	Asp	Leu	Ser	Asn	Leu	His	Glu	Ile	Ala	Ser	Gly	Gly	Ala	Pro	Leu	Ser
5	305		310		315		320									
	Lys	Glu	Val	Gly	Glu	Ala	Val	Ala	Lys	Arg	Phe	His	Leu	Pro	Gly	Ile
			325		330		335									
	Arg	Gln	Gly	Tyr	Gly	Leu	Thr	Glu	Thr	Thr	Ser	Ala	Ile	Leu	Ile	Thr
			340		345		350									
10	Pro	Glu	Gly	Asp	Asp	Lys	Pro	Gly	Ala	Val	Gly	Lys	Val	Val	Pro	Phe
			355		360		365									
	Phe	Glu	Ala	Lys	Val	Val	Asp	Leu	Asp	Thr	Gly	Lys	Thr	Leu	Gly	Val
			370		375		380									
	Asn	Gln	Arg	Gly	Glu	Leu	Cys	Val	Arg	Gly	Pro	Met	Ile	Met	Ser	Gly
15	385		390		395		400									
	Tyr	Val	Asn	Asn	Pro	Glu	Ala	Thr	Asn	Ala	Leu	Ile	Asp	Lys	Asp	Gly
			405		410		415									
	Trp	Leu	His	Ser	Gly	Asp	Ile	Ala	Tyr	Trp	Asp	Glu	Asp	Glu	His	Phe
			420		425		430									
20	Phe	Ile	Val	Asp	Arg	Leu	Lys	Ser	Leu	Ile	Lys	Tyr	Lys	Gly	Tyr	Gln
			435		440		445									
	Val	Ala	Pro	Ala	Glu	Leu	Glu	Ser	Ile	Leu	Leu	Gln	His	Pro	Asn	Ile
			450		455		460									
	Phe	Asp	Ala	Gly	Val	Ala	Gly	Leu	Pro	Asp	Asp	Asp	Ala	Gly	Glu	Leu

465 470 475 480
Pro Ala Ala Val Val Val Leu Glu His Gly Lys Thr Met Thr Glu Lys
 485 490 495
Glu Ile Val Asp Tyr Val Ala Ser Gln Val Thr Thr Ala Lys Lys Leu
5 500 505 510
Arg Gly Gly Val Val Phe Val Asp Glu Val Pro Lys Gly Leu Thr Gly
 515 520 525
Lys Leu Asp Ala Arg Lys Ile Arg Glu Ile Leu Ile Lys Ala Lys Lys
 530 535 540
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Gly Gly Lys Ser Lys Leu
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15

20

5 **SEQ ID NO: 556**

<210> 556

<211> 1904

<212> ADN

<213> Desconocido

10 <220>

<223> Description del desconocido:

Secuencia de luciferasa

<400> 556

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ctactcacag taacctcaac tcctgccaca ggtaccgagc tcaagtttgt aaaaaaagc 240
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tagaggatgg aaccgctgga gagcaactgc ataaggctat gaagagatac gccctgggtc 360
20 ctggaacaat tgcttttaca gatgcacata tcgaggtgaa catcacgtac gcggaatact 420
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ttatcggagt tgcagttgcg cccgcgaacg acatttataa tgaacgtgaa ttgctcaaca 600
glatgaacat ttcgcagcct accgtagtgt ttgtttccaa aaaggggttg caaaaaattt 660
25 tgaacgtgca aaaaaaatta ccaataatcc agaaaattat tatcatggat tctaaaacgg 720
attaccaggg atttcagtcg atgtacacgt tcgtcacatc tcatctacct cccggtttta 780
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 20 tgtttgtgga cgaagtaccg aaaggtctta ccggaaaact cgacgcaaga aaaatcagag 1860
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SEQ ID NO: 557

<210> 557

<211> 876

25 <212> ADN

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polinucleótido

Sintético

<400> 557

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25

5

SEQ ID NO: 558

<210> 558

10 <211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Péptido

15 Sintético

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Val o Ile

20 <220>

<221> MOD_RES

<222> (3)..(3)

<223> Cualquier aminoácido

<400> 558

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1 5

SEQ ID NO: 559

<210> 559

5 <211> 6

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial:

10 Etiqueta 6xHis

<400> 559

His His His His His His

1 5

15

20

