

Señores

DIRECCION DE NUEVAS CREACIONES

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

Bogotá, D.C.

Re.: Expediente No. 13 300.927

Fase nacional de Solicitud

de Patente PCT a nombre de

NGM BIOPHARMACEUTICALS, INC.

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



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En relación con la solicitud contenida en el expediente de la referencia y, en particular, para dar respuesta al Concepto Técnico contenido en el último Oficio No. 1730, proferido dentro del mismo, dentro del término conferido, por medio del presente escrito me permito manifestarles:

1. Mi representada me ha dado precisas instrucciones de presentar un nuevo capítulo de reivindicaciones.
2. En consecuencia, acompaño al presente escrito las reivindicaciones 1 a 41 junto con el comprobante de pago por concepto de la tasa correspondiente a treinta y una (31) reivindicaciones adicionales a la décima (10), Recibo No. 43.986
3. Con respecto a las modificaciones introducidas al capítulo de reivindicaciones:
 - a) La reivindicación 6 ha sido eliminada. Las nuevas reivindicaciones mencionan péptidos que tienen secuencias de aminoácidos específicas, y no se espera que estas secuencias ocurran de forma normal en la naturaleza.
 - b) La reivindicación 60 (ahora 34) ha sido modificada y ahora menciona "una línea celular transformada o huésped".
 - c) Las reivindicaciones 61-74 han sido eliminadas.

d) Las reivindicaciones 2-5, 7, 23 y 33-34 han sido eliminadas. Las nuevas reivindicaciones 1 y 3-14 mencionan un péptido, que comprende:

a) una región N-terminal que comprende por lo menos siete residuos aminoácidos, la región N-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región N-terminal comprende DSSPL (SEQ ID NO:121) o DASPH (SEQ ID NO:122); y

b) una región C-terminal que comprende una porción de SEQ ID NO:99 [FGF19], la región C-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región C-terminal comprende

(i) una primera secuencia de región C-terminal que comprende WGDPIRLRHLYTSG (aminoácidos 16 a 29 de la SEQ ID NO:99 [FGF19]), en donde el residuo W corresponde a la primera posición de aminoácido de la región C-terminal; y

(ii) una segunda secuencia de región C-terminal que comprende PHGLSSCFLRIRADGVVDCARGQSAHSLLEIKAVALRTVAIKGVHHSVRYLC MGADGKMQGLLQYSEEDCAFEIEIRPDGYNVYRSEKHRLPVSLSSAKQR QLYKNRGFLPLSHFLPMLPMVPEEPEDLRGHLESDFSSPLETDSMDPF GLVTGLEAVRSPSF EK (residuos de aminoácidos 30 a 194 de la SEQ ID NO:99 [FGF19]);

Por lo tanto, considera la Solicitante que una persona experta en la materia reconocería fácilmente las características estructurales específicas del péptido reivindicado.

e) Las reivindicaciones 9, 39-47 y 55 han sido eliminadas.

f) Las reivindicaciones 10, 11, 48-50 han sido eliminadas.

g) Las reivindicaciones 12 y 13 han sido eliminadas.

- h) Las reivindicaciones 18, 19 y 24 han sido eliminadas. Las nuevas reivindicaciones mencionan el número de identificación de secuencia apropiado SEQ ID NO.
- i) Las reivindicaciones 25-27 han sido eliminadas. Las nuevas reivindicaciones mencionan péptidos que tienen secuencias de aminoácidos específicas.
- j) Las reivindicaciones 28, 51, 52-54 han sido eliminadas. Las nuevas reivindicaciones 28, 29, 37, 38, 40 y 41 mencionan que la composición comprende el péptido y además comprende un vehículo farmacéuticamente aceptable.

La descripción proporciona, por ejemplo, que los "Diluyentes, portadores o excipientes adecuados farmacéuticamente aceptables o fisiológicamente aceptables incluyen, pero no se limitan a, antioxidantes (por ejemplo, ácido ascórbico y bisulfato de sodio), conservadores (por ejemplo, alcohol bencilico, metilparabenos, etilo o n-propilo, p-hidroxibenzoato), agentes emulsificantes, agentes de suspensión, agentes dispersantes, solventes, cargadores, agentes de carga, reguladores, vehículo, diluyentes y/o adyuvantes." [0160]

Por lo tanto, dada la revelación en la descripción, junto con el conocimiento en la técnica, la Solicitante considera que una persona medianamente versada en la materia, podría fácilmente hacer y usar las composiciones farmacéuticas reivindicadas.

- k) La reivindicación 56 ha sido eliminada y la nueva reivindicación 30 ahora menciona una molécula de ácido nucleico que codifica un péptido, que comprende:

- a) una región N-terminal que comprende por lo menos siete residuos aminoácidos, la región N-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región N-terminal comprende DSSPL (SEQ ID NO:121) o DASPH (SEQ ID NO:122); y

- b) una región C-terminal que comprende una porción de SEQ ID NO:99 [FGF19], la región C-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región C-terminal comprende

- (i) una primera secuencia de región C-terminal que comprende WGDPIRLRHLYTSG (aminoácidos 16 a 29 de la SEQ ID NO:99 [FGF19]), en donde el residuo W corresponde a la primera posición de aminoácido de la región C-terminal; y
- (ii) una segunda secuencia de región C-terminal que comprende PHGLSSCFLRIRADGVVDCARGQSAHSLEIKAVALTVAIKGVHS VRYLCMGADGKMQLLQYSEEDCAFEIEIRPDGYNVYRSEKHRL PVSLSAKQRQLYKNRGFLPLSHFLPMLPMVPEEPEDLRGHLESD MFSSPLETDSMDPFGLVTGLEAVRSPSFKEK (residuos de aminoácidos 30 a 194 de la SEQ ID NO:99 [FGF19]);

Por lo tanto, la nueva reivindicación 30 menciona un ácido nucleico que codifica un aminoácido con una secuencia específica (según se define por ciertos SEQ ID NOs).

- I) Las reivindicaciones 57-59 han sido eliminadas. Con respecto a la nueva reivindicación 31, el término "elemento de control" es bien entendido por una persona experta en la técnica y no requiere de caracterización adicional. Por ejemplo, nos permitimos dirigir la atención del señor Examinador a los párrafos [0112] y [0113] de la descripción, que proporcionan ejemplos de elementos de control de expresión que pueden ser usados:

"Un elemento de control de expresión enlazado operativamente a una secuencia de ácido nucleico controla la transcripción y, cuando sea apropiado, las translación de la secuencia de ácido nucleico. El término "enlazado operativamente" se refiere a yuxtaposición en donde los componentes denominados se encuentran en una relación que les permite funcionar en su forma pretendida. Típicamente, los elementos de control de expresión se yuxtaponen en los extremos 5' o 3' de los genes aunque también pueden ser intrónicos.

Los elementos de control de expresión incluyen elementos que activan constitutivamente la transcripción, que son inducibles (es decir, requieren una señal externa o estímulo para activación), o desreprimible (es decir, requieren una señal para activar la transcripción; cuando la señal ya no está presente, la transcripción se activa o "desreprime"). También incluidos en los casetes de expresión de la invención son los elementos de control suficientes para hacer a la expresión del gen

controlable para tipos de células o tejidos específicos (es decir, elementos de control de tejido específicos). Típicamente, tales elementos se encuentran ubicados corriente arriba o corriente abajo (es decir, 5' y 3') de la secuencia de codificación.

Los promotores se colocan generalmente 5' de la secuencia de codificación. Los promotores, producidos por ADN recombinante o técnicas sintéticas, pueden utilizarse para proporcionar una transcripción de los polinucleótidos de la invención. Un "promotor" típicamente significa un elemento de secuencia mínima suficiente para dirigir la transcripción."

Por lo tanto, dada la revelación en la descripción, junto con el conocimiento en la técnica, la Solicitante considera que una persona medianamente versada en la materia, podría fácilmente hacer y usar los ácidos nucleicos reivindicados.

m) Con respecto a las nuevas reivindicaciones 32 y 33, el término "vector" también es bien entendido por una persona experta en la técnica y no requiere de caracterización adicional. Por ejemplo, nos permitimos dirigir la atención del señor Examinador al párrafo [0114] de la descripción, que proporciona ejemplos de vectores que pueden ser usados:

"Un plásmido es un ácido nucleico que puede propagarse establemente en una célula huésped; los plásmidos pueden contener opcionalmente elementos de control de expresión para manejar la expresión del ácido nucleico. Para propósitos de esta invención, un vector es sinónimo de un plásmido. Los plásmidos y vectores generalmente contienen al menos un origen de replicación para la propagación en una célula y un promotor. Los plásmidos y vectores también pueden incluir un elemento de control de expresión para la expresión en una célula huésped, y por lo tanto son útiles para la expresión y/o manipulación genética de ácidos nucleicos que codifican la secuencia de péptidos, expresar las secuencias de péptidos en células huésped y organismos (por ejemplo, un sujeto en necesidad de tratamiento), o producir las secuencias de péptidos, por ejemplo."

La descripción incluye una revelación adicional detallada sobre diferentes tipos de vectores que pueden ser utilizados, tales como vectores bacterianos, vectores de levadura y vectores virales, por ejemplo en los párrafos [0115] - [0119] de la descripción.

Por lo tanto, dada la revelación en la descripción, junto con el conocimiento en la técnica, la Solicitante considera que una persona medianamente versada en la materia, podría fácilmente hacer y usar los vectores reivindicados.

4. Acompaño también al presente escrito el "Listado de secuencias" en formato digital, conforme con lo requerido por el señor Examinador.
5. Con respecto a la Unidad de invención, solicitamos al señor Examinador tener en cuenta las nuevas reivindicaciones que se acompañan, que abarcan el Grupo inventivo 1 mencionado en el Oficio.
6. El señor Examinador considera que las reivindicaciones no cumplen con los requisitos de patentabilidad frente al documento citado WO 2011/047267 D1. Sin embargo, mi representada considera que el objeto de las reivindicaciones que se acompañan sí posee novedad y nivel inventivo:

6.1 Novedad

Las nuevas reivindicaciones se refieren a péptidos que tienen secuencias de aminoácidos específicas. Esto es, los péptidos mencionados en las reivindicaciones comprenden:

- a) una región N-terminal que comprende por lo menos siete residuos aminoácidos, la región N-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región con N-terminal comprende DSSPL (SEQ ID NO:121) o DASPH (SEQ ID NO:122); y
- b) una región con C-terminal que comprende una porción de SEQ ID NO:99 [FGF19], la región C-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región con C-terminal comprende:
 - (i) una primera secuencia de región C-terminal que comprende WGDPIRLRHLYTSG (aminoácidos 16 a 29 de SEQ ID NO:99 [FGF19]), en donde el residuo W corresponde a la primera posición de aminoácido de la región C-terminal; y

(ii) una segunda secuencia de región C-terminal que comprende:

PHGLSSCFLRIRADGVVDCARGQSAHSLEIKAVLRITVAIKGV
HSVRYLCMGADGKMQGLLQYSEEDCAFEIEIRPDGYNVYRSE
KHRLPVSLSSAKQRQLYKNRGFLPLSHFLPMLPMVPEEPEDLR
GHLESDMFSSPLETDSMDPFGLVTGLEAVRSPSFEK (residuos
de aminoácidos 30 a 194 de SEQ ID NO:99 [FGF19]).

El documento citado, WO 2011/047267 D1, no revela ni sugiere los péptidos que comprenden las secuencias específicas mencionadas en las presentes reivindicaciones.

6.2 Nivel inventivo

Con respecto a las reivindicaciones que se acompañan, los péptidos que tienen las secuencias mencionadas no son obvios frente al documento WO 2011/047267 D1, por cuanto:

a) Una persona medianamente versada en la técnica no habría llegado a los péptidos reivindicados en vista de las revelaciones en el documento D1. El señor Examinador sostiene que "el documento D1 daba a conocer previamente las porciones de FGF19 y FGF21 de regiones amino- y carboxi- terminales *que podían seleccionarse* para construir los polipéptidos quiméricos y enseñaba modificaciones o mutaciones resultantes hasta en un 80% de identidad con las secuencias nativas." (resaltado fuera de texto).

El documento D1 parece describir cientos de secuencias, ninguna de las cuales incluye todos los elementos de las presentes reivindicaciones. El señor Examinador no ha proporcionado una razón fundamental para que una persona medianamente versada en la técnica escoja y elija diferentes regiones a partir de estos cientos de secuencias reveladas en el documento D1, para llegar a las secuencias reivindicadas. De hecho, el mero hecho de que las porciones de FGF19 y FGF21 *podían seleccionarse* para producir los péptidos reivindicados no respalda la conclusión de que el péptido reivindicado habría sido obvio para una persona medianamente versada en la técnica.

b) El problema técnico que resuelve la presente solicitud no es simplemente “conseguir polipéptidos quiméricos alternativos” como lo afirma el señor Examinador. Por el contrario, como lo menciona la reivindicación 1, los péptidos reivindicados también cumplen con los siguientes criterios:

(i) se unen al receptor 4 del factor de crecimiento de fibroblastos (FGFR4) con una afinidad igual o mayor que la afinidad de unión de FGF19 para FGFR4;

(ii) activan FGFR4 en un grado o cantidad igual o mayor que FGF19 activa FGFR4;

(iii) tienen al menos una de la formación de carcinoma hepatocelular (HCC) reducida; mayor actividad de disminución de glucosa, menos actividad de incremento de lípidos, menos actividad de triglicéridos, menos actividad de colesterol, menos actividad sin HDL o menos incremento de la actividad HDL, en comparación con FGF19, o en comparación con una secuencia variante FGF19 que tenga cualquiera de GQV, GDI, WGPI, WGDPI, GDPI, GPI, WGQPI, WGAPI, AGDPI, WAPDI, WGDAI, WGDPA, WDPI, WGDI, WGDPI o FGDPI sustituida por la secuencia WGDPI en los amino ácidos 16-20 de FGF19 (SEQ ID NO:99); y/o

(iv) tienen menos actividad de reducción de masa magra en comparación con FGF21.

c) De hecho, como se ejemplifica en la descripción, los péptidos mencionados en las reivindicaciones tienen actividad reductora de glucosa (ver Ejemplos 2 y 7), no reducen músculo magro o masa grasa (ver Ejemplo 3), no son tumorigénicos (ver Ejemplo 3), y tampoco tienen aumento de la actividad de los lípidos.

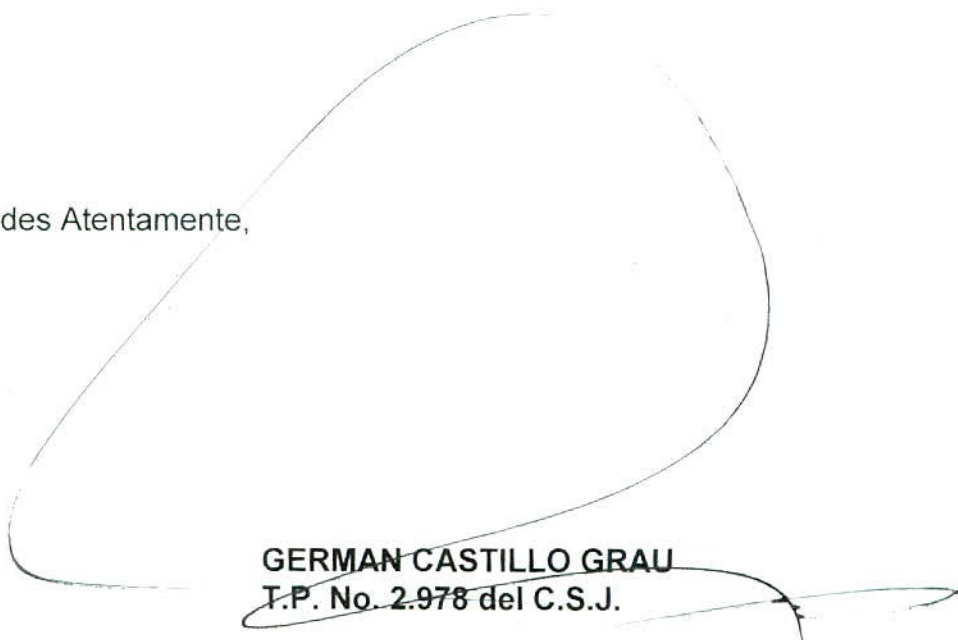
El documento D1 no solo no revela ni sugiere los péptidos reivindicados con las secuencias mencionadas, sino que el documento D1 tampoco revela ni sugiere cuáles características estructurales de los cientos de secuencias que allí se revelan tendrían una o más de las características funcionales mencionadas anteriormente.

En consecuencia, a la luz del documento D1, una persona medianamente versada en la materia no podría haber llegado a los péptidos mencionados en las presentes reivindicaciones que tienen las secuencias mencionadas, y *mucho menos* a los péptidos que tienen una o más de las características funcionales citadas.

7. Consideramos que con las correcciones efectuadas y los argumentos expuestos, el capítulo de reivindicaciones que se acompaña resuelve las objeciones planteadas por el señor Examinador.

Les solicito se sirvan agregar este escrito y sus anexos al expediente y conceder el privilegio solicitado.

De Ustedes Atentamente,



GERMAN CASTILLO GRAU
T.P. No. 2.978 del C.S.J.

REIVINDICACIONES

1. Un péptido, que comprende:

- a) una región N-terminal que comprende por lo menos siete residuos aminoácidos, la región N-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región N-terminal comprende DSSPL (SEQ ID NO:121) o DASPH (SEQ ID NO:122); y
- b) una región C-terminal que comprende una porción de SEQ ID NO:99 [FGF19], la región C-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región C-terminal comprende
 - (i) una primera secuencia de región C-terminal que comprende WGDPIRLRHLTYTSG (aminoácidos 16 a 29 de la SEQ ID NO:99 [FGF19]), en donde el residuo W corresponde a la primera posición de aminoácido de la región C-terminal; y
 - (ii) una segunda secuencia de región C-terminal que comprende
 PHGLSSCFLRIRADGVVDCARGQSAHSLLEIKAVALRTVAI
 KGVHHSVRYLCMGADGKMQLLQYSEEDCAFEIEIRPDG
 YNVYRSEKHRLPVSLSSAKQRQLYKNRGFLPLSHFLPMLP
 MVPEEPEDLRGHLESDMFSSPLETDSMDPFGLVTGLEAV
 RSPSF EK (residuos de aminoácidos 30 a 194 de la SEQ ID NO:99 [FGF19]);

en donde el péptido

- (i) se une al receptor 4 del factor de crecimiento de fibroblasto (FGFR4) con una afinidad igual o mayor que la afinidad de unión de FGF19 para FGFR4;
- (ii) activa FGFR4 en un grado o cantidad igual o mayor que FGF19 activa FGFR4;
- (iii) tiene al menos una de la formación de carcinoma hepatocelular (HCC) reducida; mayor actividad de disminución de glucosa, menos actividad de incremento de lípidos, menos actividad de triglicéridos, menos actividad de

colesterol, menos actividad sin HDL o menos incremento de la actividad HDL, en comparación con FGF19, o en comparación con una secuencia variante de FGF19 que tiene cualquiera de GQV, GDI, WGPI, WGDPI, WGDI, GDPI, GPI, WGQPI, WGAPI, AGDPI, WAPDI, WGDAI, WGDPA, WDPI, WGDI, WGDPI o FGDPI sustituida por la secuencia WGDPI en los aminoácidos 16-20 de FGF19 (SEQ ID NO:99); y/o

(iv) tiene menos actividad de reducción de masa magra en comparación con FGF21.

2. El péptido de la reivindicación 1, en donde el péptido es menor de aproximadamente 250 aminoácidos en longitud.

3. El péptido de la reivindicación 1, en donde la región N-terminal comprende residuos de aminoácidos VHYG (SEQ ID NO:101), DASPHVHYG (SEQ ID NO:102), O DSSPLVHYG (SEQ ID NO:103).

4. El péptido de la reivindicación 3, en donde el G corresponde a la última posición de la región N-terminal.

5. El péptido de la reivindicación 1, en donde la región N-terminal comprende residuos de aminoácidos DSSPLLQ (SEQ ID NO:104), y en donde el residuo Q es la última posición de aminoácido de la región N-terminal.

6. El péptido de la reivindicación 4, en donde la región N-terminal además comprende:

RHPIP (SEQ ID NO:106), en donde R es la primera posición de aminoácido de la región N-terminal;

HPIP (SEQ ID NO:107), en donde H es la primera posición de aminoácido de la región N-terminal;

RPLAF (SEQ ID NO:108), en donde R es la primera posición de aminoácido de la región N-terminal;

PLAF (SEQ ID NO:109), en donde P es la primera posición de aminoácido de la región N-terminal; o

R, en donde R es la primera posición de aminoácido de la región N-terminal.

7. El péptido de la reivindicación 5, en donde la región N-terminal además comprende:

RHIP (SEQ ID NO:106), en donde R es la primera posición de aminoácido de la región N-terminal;

HPIP (SEQ ID NO:107), en donde H es la primera posición de aminoácido de la región N-terminal;

RPLAF (SEQ ID NO:108), en donde R es la primera posición de aminoácido de la región N-terminal;

PLAF (SEQ ID NO:109), en donde P es la primera posición de aminoácido de la región N-terminal; o

R, en donde R es la primera posición de aminoácido de la región N-terminal.

8. El péptido de la reivindicación 1, en donde la región N-terminal comprende los residuos de aminoácidos DSSPLLQFGGQV (SEQ ID NO:105), y en donde el residuo V corresponde a la última posición de la región N-terminal.

9. El péptido de la reivindicación 1, en donde los residuos de aminoácidos HPIP (SEQ ID NO:107) son los primeros 4 residuos de aminoácidos de la región N-terminal.

10. El péptido de la reivindicación 1, en donde la primera posición de la región N-terminal es un residuo R o M;

la primera y segunda posiciones de la región N-terminal es una secuencia MR, RM, RD, DS, MD o MS;

la primera a la tercera posiciones de la región N-terminal es una secuencia MDS, RDS, MSD, MSS o DSS;

la primera a la cuarta posiciones de la región N-terminal es una secuencia RDSS (SEQ ID NO:115) o MDSS (SEQ ID NO:116);

la primera a la quinta posiciones de la región N-terminal es una secuencia MRDSS (SEQ ID NO:117);

la primera a la sexta posiciones de la región N-terminal es una secuencia MDSSPL (SEQ ID NO:119); o

la primera a la séptima posiciones de la región N-terminal es una secuencia MSDSSPL (SEQ ID NO:120).

11. El péptido de la reivindicación 1, en donde el péptido comprende una región N-terminal y una primera región C-terminal que tiene una secuencia de aminoácidos que comprende o consiste de cualquiera de:

RPLAFSDASPHVHYGWGDPIRLRHLYTSG (aminoácidos 1-29 de SEQ ID NO:1);

PLAFSDASPHVHYGWGDPIRLRHLYTSG (aminoácidos 2-29 de SEQ ID NO:1);

RPLAFSDSSPLVHYGWGDPIRLRHLYTSG (aminoácidos 1-29 de SEQ ID NO:2);

PLAFSDSSPLVHYGWGDPIRLRHLYTSG (aminoácidos 2-29 de SEQ ID NO:2);

RHPIPDSSPLLQWGDPIRLRHLYTSG (aminoácidos 1-26 de SEQ ID NO:8);

RHPIPDSSPLLQFGWGDPIRLRHLYTSG (aminoácidos 1-28 de SEQ ID NO:9);

RPLAFSDSSPLVHWGDPIRLRHLYTSG (aminoácidos 1-27 de SEQ ID NO:26);

PLAFSDSSPLVHWGDPIRLRHLYTSG (aminoácidos 2-27 de SEQ ID NO:26);

HPIPDSSPLLQWGDPIRLRHLYTSG (aminoácidos 1-25 de SEQ ID NO:47);

RDSSPLLQWGDPIRLRHLYTSG (aminoácidos 1-22 de SEQ ID NO:52);

DSSPLLQWGDPIRLRHLYTSG (aminoácidos 2-22 de SEQ ID NO:52);

MDSSPLVHYGWGDPIRLRHLYTSG (aminoácidos 1-24 de SEQ ID NO:53);

RDSSPLVHYGWGDPIRLRHLYTSG (aminoácidos 1-24 de SEQ ID NO:69);

DSSPLVHYGWGDPIRLRHLYTSG (aminoácidos 2-24 de SEQ ID NO:69);

MRDSSPLVHYGWGDPIRLRHLYTSG (aminoácidos 1-25 de SEQ ID NO:70);

DSSPLVHYGWGDPIRLRHLYTSG (aminoácidos 1-23 de SEQ ID NO:141);

o

HPIPDSSPLLQFGWGDPIRLRHLYTSG (aminoácidos 1-27 de SEQ ID:163).

12. El péptido de la reivindicación 1, en donde la primera posición de aminoácido de la región N-terminal es un residuo metionina (M), arginina (R), serina (S), histidina (H), prolina (P), leucina (L) o ácido aspártico (D).

13. El péptido de la reivindicación 1, en donde la región N-terminal no tiene un residuo metionina (M) o arginina (R) en la primera posición de aminoácido de la región N-terminal.

14. El péptido de la reivindicación 1, en donde la región N-terminal comprende cualquiera de las siguientes secuencias de aminoácidos: MDSSPL (SEQ ID NO:119), MSDSSPL (SEQ ID NO:120), o SDSSPL (SEQ ID NO:112).

15. El péptido de la reivindicación 1, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:26, SEQ ID NO:47, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:69, SEQ ID NO:70; SEQ ID NO:141 o SEQ ID NO:163.

16. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NOs:1, 2, 8, 9, 26, 52 o 69, en donde el residuo arginina (R) en la primera posición de aminoácido de la región N-terminal de la secuencia se elimina.

17. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:1.

18. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:2.

19. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:8.

20. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:9.

21. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:26.

22. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:47.

23. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:52.

24. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:53.

25. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:69.

26. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:141.

27. El péptido de la reivindicación 15, en donde el péptido tiene una secuencia de aminoácidos que comprende o consiste de SEQ ID NO:163.

28. Una composición farmacéutica, que comprende el péptido de la reivindicación 1, y un vehículo farmacéuticamente aceptable.

29. Una composición farmacéutica, que comprende el péptido de la reivindicación 1, un agente de disminución de glucosa, y un vehículo farmacéuticamente aceptable.

30. Una molécula de ácido nucleico que codifica un péptido, que comprende:

a) una región N-terminal que comprende por lo menos siete residuos aminoácidos, la región N-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región N-terminal comprende DSSPL (SEQ ID NO:121) o DASPH (SEQ ID NO:122); y

b) una región C-terminal que comprende una porción de SEQ ID NO:99 [FGF19], la región C-terminal tiene una primera posición de aminoácido y una última posición de aminoácido, en donde la región C-terminal comprende

(i) una primera secuencia de región C-terminal que comprende WGDPIRLRHLYTSG (aminoácidos 16 a 29 de la SEQ ID NO:99 [FGF19]), en donde el residuo W corresponde a la primera posición de aminoácido de la región C-terminal; y

(ii) una segunda secuencia de región C-terminal que comprende
PHGLSSCFLRIRADGVVDCARGQSAHSLEIKAVALRTVAI
KGVHVSRYLCMGADGKMQLLQYSEEDCAFEIEIRPDG
YNVYRSEKHRLPVSLSSAKQRQLYKNRGFLPLSHFLPMLP
MVPEEPEDLRGHLESDFSSPLETDSMDPFGLVTGLEAV
RSPSFEK (residuos de aminoácidos 30 a 194 de la SEQ ID NO:99 [FGF19]);

en donde el péptido

- (i) se une al receptor 4 del factor de crecimiento de fibroblastos (FGFR4) con una afinidad igual o mayor que la afinidad de unión de FGF19 para FGFR4;
- (ii) activa FGFR4 en un grado o cantidad igual o mayor que FGF19 activa FGFR4;
- (iii) tiene al menos una de la formación de carcinoma hepatocelular (HCC) reducida; mayor actividad de disminución de glucosa, menos actividad de incremento de lípidos, menos actividad de triglicéridos, menos actividad de colesterol, menos actividad sin HDL o menos incremento de la actividad HDL, en comparación con FGF19, o en comparación con una secuencia variante FGF19 que tenga cualquiera de GQV, GDI, WGPI, WGDPI, WGDI, GDPI, GPI, WGQPI, WGAPI, AGDPI, WAPDI, WGDAI, WGDPA, WDPI, WGDI, WGDPI o FGDPI sustituida por la secuencia WGDPI en los amino ácidos 16-20 de FGF19 (SEQ ID NO:99); y/o
- (iv) tiene menos actividad de reducción de masa magra en comparación con FGF21.

31. La molécula de ácido nucleico de la reivindicación 30, que además comprende un elemento de control de expresión en ligamento operable que confiere expresión de la molécula de ácido nucleico que codifica el péptido in vitro, en una célula o in vivo.

32. Un vector que comprende la molécula de ácido nucleico de la reivindicación 30.

33. El vector de la reivindicación 32, en donde el vector comprende un vector viral.

34. Una línea celular transformada o huésped que expresa al péptido de la reivindicación 1.

35. Un péptido que tiene una secuencia de aminoácidos que comprende o consiste de

MRDSSPLVHYGWGDPIRLRHLYTSGPHGLSSCFLRIRADGVVDCARGQSAHSLLLEI
KAVALRTVAIKGVHVSRYLCMGADGKMQLLQYSEEDCAFEIEIRPDGYNVYRSEK
HRLPVSLSSAKQRQLYKNRGFLPLSHFLPMLPMVPEEPEDLRGHLESDFSSPLET
DSMDPFGLVTGLEAVRSPSFEK (SEQ ID NO:70).

36. El péptido de la reivindicación 35, en donde el péptido tiene una secuencia de aminoácidos que comprende SEQ ID NO:70.

37. Una composición farmacéutica que comprende el péptido de la reivindicación 36, y un vehículo farmacéuticamente aceptable.

38. Una composición farmacéutica que comprende el péptido de la reivindicación 36, un agente de disminución de glucosa, y un vehículo farmacéuticamente aceptable.

39. El péptido de la reivindicación 35, en donde el péptido tiene una secuencia de aminoácidos que consiste de SEQ ID NO:70.

40. Una composición farmacéutica que comprende el péptido de la reivindicación 39, y un vehículo farmacéuticamente aceptable.

41. Una composición farmacéutica que comprende el péptido de la reivindicación 39, un agente de disminución de glucosa, y un vehículo farmacéuticamente aceptable.

 Industria y Comercio SUPERINTENDENCIA	TESTIGO DOCUMENTAL	Folio: <u>19</u>
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Dependencia Jerárquica: DEL PROPIEDAD INDUSTRIAL		Código: 2000
Dependencia Productora: GRUPO DE NUEVAS CREACIONES		Código: 2020
Tipo de Radicación: Entrada: ☒ Salida: ☐ Traslado: ☐ Convenio: ☐		
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Expediente: <u>13-300927-08</u>	Solicitante / <i>Quejoso</i> / <i>Demandante</i> / <i>otros</i> .	
Prueba excluida: <u>cd</u>		
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RECIBIDO DE : CASTILLO GRAU & ASOCIADOS LTDA.

NI 800.098.704

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CONSIGNACION	BANCO DE BOGOTA	062754387	735683395	02/07/2015	1.046.000.00

*** Conceptos Pagados ***

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SON: **NOVECIENTOS NOVENTA Y DOS MIL PESOS MONEDA CORRIENTE***

Responsable: _____

Recibo de Caja Aplicado al Expediente No. _____

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 13-300927- -00008-0000

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Julio 2 de 2015 - 12:18:36

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LISTADO DE SECUENCIAS

<110> NGM Biopharmaceuticals, Inc.
LING, LEI
LINDHOUT, DARRIN A.

<120> Compositions, Uses and Methods for Treatment of Metabolic Disorders and Diseases

<130> 13300927

<140> PCT/US2012/045087
<141> 2012-06-29

<150> 61/504,128
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Glu Lys

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Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
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Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
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Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
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Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
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Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
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Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
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Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
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Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
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Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
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Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
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Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro
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Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
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Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met
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Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
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180 185 190

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Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
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150

155

160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 14

<211> 191

<212> PRT

<213> Homo sapiens

<400> 14

Arg His Pro Ile Pro Asp Ser Ser Pro His Val His Tyr Gly Gly Gln
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

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

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing
180 185 190

<210> 15
<211> 192
<212> PRT
<213> Homo sapiens

<400> 15

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 16
<211> 192
<212> PRT
<213> Homo sapiens

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<400> 16

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 17

<211> 192

<212> PRT

<213> Homo sapiens

<400> 17

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 18
<211> 192
<212> PRT
<213> Homo sapiens

<400> 18

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Tyr Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 19
<211> 192
<212> PRT
<213> Homo sapiens

<400> 19

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Val Tyr Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 20
<211> 192
<212> PRT
<213> Homo sapiens

<400> 20

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Val His Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 21
<211> 192
<212> PRT
<213> Homo sapiens

<400> 21

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Val His Tyr Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 22
<211> 193
<212> PRT
<213> Homo sapiens

<400> 22

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Gly Trp Gly
1 5 10 15

Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu
20 25 30

Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala
35 40 45

Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu
50 55 60

Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met
65 70 75 80

Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp
85 90 95

Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
100 105 110

Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg
115 120 125

Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro
130 135 140

Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
145 150 155 160

Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro
165 170 175

Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu
180 185 190

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Lys

<210> 23
 <211> 192
 <212> PRT
 <213> Homo sapiens
 <400> 23

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His His Gly Trp Gly Asp
 1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
 20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
 35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
 50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
 65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
 85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
 100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
 115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
 130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
 145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
 165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
 180 185 190

<210> 24
 <211> 192

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<212> PRT

<213> Homo sapiens

<400> 24

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His His Tyr Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 25

<211> 192

<212> PRT

<213> Homo sapiens

<400> 25

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val Tyr Trp Gly Asp
1 5 10 15

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 26
<211> 192
<212> PRT
<213> Homo sapiens

<400> 26

Arg Pro Leu Ala Phe Ser Asp Ser Ser Pro Leu Val His Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 27
<211> 192
<212> PRT
<213> Homo sapiens

<400> 27

Arg Pro Leu Ala Phe Ser Asp Ser Ser Pro His Val His Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 28
<211> 191
<212> PRT
<213> Homo sapiens

<400> 28

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val Trp Gly Asp Pro
1 5 10 15

Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
 115 120 125

 Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
 130 135 140

 Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
 145 150 155 160

 Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
 165 170 175

 Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
 180 185 190

 <210> 29
 <211> 193
 <212> PRT
 <213> Homo sapiens

 <400> 29

 Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Trp Gly
 1 5 10 15

 Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu
 20 25 30

 Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala
 35 40 45

 Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu
 50 55 60

 Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met
 65 70 75 80

 Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp
 85 90 95

 Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
 100 105 110

 Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg
 115 120 125

 Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro
 130 135 140

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
145 150 155 160

Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro
165 170 175

Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu
180 185 190

Lys

<210> 30
<211> 194
<212> PRT
<213> Homo sapiens

<400> 30

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Ala Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 31
<211> 191
<212> PRT
<213> Homo sapiens

<400> 31

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Ala Gln
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 32
<211> 191
<212> PRT
<213> Homo sapiens

<400> 32

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Asp Gln
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 33
<211> 191
<212> PRT

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<213> Homo sapiens

<400> 33

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Pro Gln
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 34

<211> 191

<212> PRT

<213> Homo sapiens

<400> 34

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Ala
1 5 10 15

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 35
<211> 191
<212> PRT
<213> Homo sapiens

<400> 35

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Glu
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 36
<211> 191
<212> PRT
<213> Homo sapiens

<400> 36

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Asn
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 37
<211> 191
<212> PRT
<213> Homo sapiens
<400> 37

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln
1 5 10 15

Ala Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 38
<211> 191
<212> PRT
<213> Homo sapiens

<400> 38

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln
1 5 10 15

Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 39
<211> 191
<212> PRT
<213> Homo sapiens
<400> 39

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln
1 5 10 15

Thr Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 40
<211> 193
<212> PRT
<213> Homo sapiens

<400> 40

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Trp Gly
1 5 10 15

Gln Pro Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu
20 25 30

Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala
35 40 45

Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu
50 55 60

Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met
65 70 75 80

Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp
85 90 95

Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
100 105 110

Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg
115 120 125

Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro
130 135 140

Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
145 150 155 160

Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro
165 170 175

Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu
180 185 190

Lys

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<210> 41

<211> 182

<212> PRT

<213> Homo sapiens

<400> 41

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Glu Pro Pro Gly Ile Leu Ala Pro Gln Pro Pro Asp
145 150 155 160

Val Gly Ser Ser Asp Pro Leu Ser Met Val Gly Pro Ser Gln Gly Arg
165 170 175

Ser Pro Ser Tyr Ala Ser
180

<210> 42

<211> 178

<212> PRT

<213> Homo sapiens

<400> 42

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val

1 5 10 15

Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys
20 25 30

Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln
35 40 45

Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
50 55 60

Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp
65 70 75 80

Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe
85 90 95

Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys
100 105 110

His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr
115 120 125

Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro
130 135 140

Glu Pro Pro Gly Ile Leu Ala Pro Gln Pro Pro Asp Val Gly Ser Ser
145 150 155 160

Asp Pro Leu Ser Met Val Gly Pro Ser Gln Gly Arg Ser Pro Ser Tyr
165 170 175

Ala Ser

<210> 43
<211> 192
<212> PRT
<213> Homo sapiens

<400> 43

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Gly
1 5 10 15

Asp Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 44
<211> 185
<212> PRT
<213> Homo sapiens
<400> 44

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Gln Arg Tyr Leu Tyr Thr Asp Asp Ala Gln Gln
20 25 30

Thr Glu Ala His Leu Glu Ile Arg Glu Asp Gly Thr Val Gly Gly Ala
35 40 45

Ala Asp Gln Ser Pro Glu Ser Leu Leu Gln Leu Lys Ala Leu Lys Pro
50 55 60

Gly Val Ile Gln Ile Leu Gly Val Lys Thr Ser Arg Phe Leu Cys Gln

NAI_1500342487_1_131254-026003_13370-003-026_sequence Listing

Arg Pro Asp Gly Ala Leu Tyr Gly Ser Leu His Phe Asp Pro Glu Ala
85 90 95

Cys Ser Phe Arg Glu Leu Leu Leu Glu Asp Gly Tyr Asn Val Tyr Gln
100 105 110

Ser Glu Ala His Gly Leu Pro Leu His Leu Pro Gly Asn Lys Ser Pro
115 120 125

His Arg Asp Pro Ala Pro Arg Gly Pro Ala Arg Phe Leu Pro Leu Pro
130 135 140

Gly Leu Pro Pro Ala Leu Pro Glu Pro Pro Gly Ile Leu Ala Pro Gln
145 150 155 160

Pro Pro Asp Val Gly Ser Ser Asp Pro Leu Ser Met Val Gly Pro Ser
165 170 175

Gln Gly Arg Ser Pro Ser Tyr Ala Ser
180 185

<210>	45
<211>	193
<212>	PRT
<213>	Homo sapiens

<400> 45

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val
1 5 10 15

Arg Gln Arg Tyr Leu Tyr Thr Asp Asp Ala Gln Gln Thr Glu Ala His
20 25 30

Leu Glu Ile Arg Glu Asp Gly Thr Val Gly Gly Ala Ala Asp Gln Ser
35 40 45

Pro Glu Ser Leu Leu Gln Leu Lys Ala Leu Lys Pro Gly Val Ile Gln
50 55 60

Ile Leu Gly Val Lys Thr Ser Arg Phe Leu Cys Gln Arg Pro Asp Gly
65 70 75 80

Ala Leu Tyr Gly Ser Leu His Phe Asp Pro Glu Ala Cys Ser Phe Arg
85 90 95

Glu Leu Leu Leu Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala His
Página 40

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing
100 105 110

Gly Leu Pro Leu His Leu Pro Gly Asn Lys Ser Pro His Arg Asp Pro
115 120 125

Ala Pro Arg Gly Pro Ala Arg Phe Leu Pro Leu Pro Gly Leu Pro Pro
130 135 140

Ala Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
145 150 155 160

Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro
165 170 175

Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu
180 185 190

Lys

<210> 46
<211> 232
<212> PRT
<213> Homo sapiens

<400> 46

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Gln Arg Tyr Leu Tyr Thr Asp Asp Ala Gln Gln
20 25 30

Thr Glu Ala His Leu Glu Ile Arg Glu Asp Gly Thr Val Gly Gly Ala
35 40 45

Ala Asp Gln Ser Pro Glu Ser Leu Leu Gln Leu Lys Ala Leu Lys Pro
50 55 60

Gly Val Ile Gln Ile Leu Gly Val Lys Thr Ser Arg Phe Leu Cys Gln
65 70 75 80

Arg Pro Asp Gly Ala Leu Tyr Gly Ser Leu His Phe Asp Pro Glu Ala
85 90 95

Cys Ser Phe Arg Glu Leu Leu Leu Glu Asp Gly Tyr Asn Val Tyr Gln
100 105 110

Ser Glu Ala His Gly Leu Pro Leu His Leu Pro Gly Asn Lys Ser Pro
Página 41

His Arg Asp Pro Ala Pro Arg Gly Pro Ala Arg Phe Leu Pro Leu Pro
130 135 140

Gly Leu Pro Pro Ala Leu Pro Glu Pro Pro Gly Ile Leu Ala Pro Gln
145 150 155 160

Pro Pro Asp Val Gly Ser Ser Asp Pro Leu Ser Met Val Gly Pro Ser
165 170 175

Gln Gly Arg Ser Pro Ser Tyr Ala Ser Pro Met Val Pro Glu Glu Pro
180 185 190

Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu
195 200 205

Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala
210 215 220

Val Arg Ser Pro Ser Phe Glu Lys
225 230

<210> 47
<211> 190
<212> PRT
<213> Homo sapiens
<400> 47

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Trp Gly Asp Pro Ile
1 5 10 15

Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys
20 25 30

Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln
35 40 45

Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
50 55 60

Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp
65 70 75 80

Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe
85 90 95

Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys
Página 42

His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr
115 120 125

Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro
130 135 140

Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp
145 150 155 160

Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu
165 170 175

Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 48
<211> 187
<212> PRT
<213> Homo sapiens
<400> 48

Arg Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val Arg Leu Arg
1 5 10 15

His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg
20 25 30

Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His
35 40 45

Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys
50 55 60

Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met
65 70 75 80

Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu
85 90 95

Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu
100 105 110

Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg
115 120 125

Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro
Página 43

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser
145 150 155 160

Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly
165 170 175

Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 49
<211> 192
<212> PRT
<213> Homo sapiens
<400> 49

Arg Pro Leu Ala Phe Ser Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly
1 5 10 15

Gln Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 50
<211> 191
<212> PRT
<213> Homo sapiens
<400> 50

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Asp Gln
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Leu Glu Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 51

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<211> 191

<212> PRT

<213> Homo sapiens

<400> 51

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Asn
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 52

<211> 187

<212> PRT

<213> Homo sapiens

<400> 52

Arg Asp Ser Ser Pro Leu Leu Gln Trp Gly Asp Pro Ile Arg Leu Arg
1 5 10 15

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg
20 25 30

Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His
35 40 45

Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys
50 55 60

Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met
65 70 75 80

Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu
85 90 95

Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu
100 105 110

Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg
115 120 125

Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro
130 135 140

Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser
145 150 155 160

Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly
165 170 175

Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 53
<211> 189
<212> PRT
<213> Homo sapiens
<400> 53

Met Asp Ser Ser Pro Leu Val His Tyr Gly Trp Gly Asp Pro Ile Arg
1 5 10 15

Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe
20 25 30

Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
35 40 45

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala
50 55 60

Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly
65 70 75 80

Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu
85 90 95

Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His
100 105 110

Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys
115 120 125

Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met
130 135 140

Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met
145 150 155 160

Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val
165 170 175

Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 54
<211> 192
<212> PRT
<213> Homo sapiens

<400> 54

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Leu Leu Gln Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 55
<211> 192
<212> PRT
<213> Homo sapiens
<400> 55

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Tyr Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 56
<211> 192
<212> PRT
<213> Homo sapiens
<400> 56

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Val Tyr Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 57
<211> 192
<212> PRT
<213> Homo sapiens

<400> 57

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Val His Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 58
<211> 192
<212> PRT
<213> Homo sapiens
<400> 58

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Val His Tyr Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 59
<211> 192

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<212> PRT

<213> Homo sapiens

<400> 59

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His His Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 60

<211> 192

<212> PRT

<213> Homo sapiens

<400> 60

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His His Tyr Trp Gly Asp
1 5 10 15

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 61
<211> 192
<212> PRT
<213> Homo sapiens

<400> 61

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 62
<211> 192
<212> PRT
<213> Homo sapiens
<400> 62

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val Tyr Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 63
<211> 192
<212> PRT
<213> Homo sapiens

<400> 63

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 64
<211> 192
<212> PRT
<213> Homo sapiens

<400> 64

Arg Pro Leu Ala Phe Ser Asp Ser Ser Pro Leu Val His Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 65
<211> 192
<212> PRT
<213> Homo sapiens

<400> 65

Arg Pro Leu Ala Phe Ser Asp Ser Ser Pro His Val His Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 66
<211> 192
<212> PRT
<213> Homo sapiens

<400> 66

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Leu Gln Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 67
<211> 191
<212> PRT

<213> Homo sapiens

<400> 67

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val Trp Gly Asp Pro
1 5 10 15

Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 68

<211> 193

<212> PRT

<213> Homo sapiens

<400> 68

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Trp Gly
1 5 10 15

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu
20 25 30

Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala
35 40 45

Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu
50 55 60

Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met
65 70 75 80

Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp
85 90 95

Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
100 105 110

Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg
115 120 125

Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro
130 135 140

Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
145 150 155 160

Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro
165 170 175

Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu
180 185 190

Lys

<210> 69
<211> 189
<212> PRT
<213> Homo sapiens

<400> 69

Arg Asp Ser Ser Pro Leu Val His Tyr Gly Trp Gly Asp Pro Ile Arg
1 5 10 15

Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe
20 25 30

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
35 40 45

Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala
50 55 60

Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly
65 70 75 80

Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu
85 90 95

Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His
100 105 110

Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys
115 120 125

Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met
130 135 140

Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met
145 150 155 160

Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val
165 170 175

Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 70
<211> 190
<212> PRT
<213> Homo sapiens

<400> 70

Met Arg Asp Ser Ser Pro Leu Val His Tyr Gly Trp Gly Asp Pro Ile
1 5 10 15

Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys
20 25 30

Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln
35 40 45

Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
50 55 60

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp
65 70 75 80

Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe
85 90 95

Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys
100 105 110

His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr
115 120 125

Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro
130 135 140

Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp
145 150 155 160

Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu
165 170 175

Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 71
<211> 181
<212> PRT
<213> Homo sapiens
<400> 71

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val
1 5 10 15

Arg Gln Arg Tyr Leu Tyr Thr Asp Asp Ala Gln Gln Thr Glu Ala His
20 25 30

Leu Glu Ile Arg Glu Asp Gly Thr Val Gly Gly Ala Ala Asp Gln Ser
35 40 45

Pro Glu Ser Leu Leu Gln Leu Lys Ala Leu Lys Pro Gly Val Ile Gln
50 55 60

Ile Leu Gly Val Lys Thr Ser Arg Phe Leu Cys Gln Arg Pro Asp Gly
65 70 75 80

Ala Leu Tyr Gly Ser Leu His Phe Asp Pro Glu Ala Cys Ser Phe Arg
85 90 95

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Glu Leu Leu Leu Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala His
100 105 110

Ser Leu Pro Leu His Leu Pro Gly Asn Lys Ser Pro His Arg Asp Pro
115 120 125

Ala Pro Arg Gly Pro Ala Arg Phe Leu Pro Leu Pro Gly Leu Pro Pro
130 135 140

Ala Leu Pro Glu Pro Pro Gly Ile Leu Ala Pro Gln Pro Pro Asp Val
145 150 155 160

Gly Ser Ser Asp Pro Leu Ser Met Val Gly Pro Ser Gln Gly Arg Ser
165 170 175

Pro Ser Tyr Ala Ser
180

<210> 72
<211> 181
<212> PRT
<213> Homo sapiens

<400> 72

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val
1 5 10 15

Arg Gln Arg Tyr Leu Tyr Thr Asp Asp Ala Gln Gln Thr Glu Ala His
20 25 30

Leu Glu Ile Arg Glu Asp Gly Thr Val Gly Gly Ala Ala Asp Gln Ser
35 40 45

Pro Glu Ser Leu Leu Gln Leu Lys Ala Leu Lys Pro Gly Val Ile Gln
50 55 60

Ile Leu Gly Val Lys Thr Ser Arg Phe Leu Cys Gln Arg Pro Asp Gly
65 70 75 80

Ala Leu Tyr Gly Ser Leu His Phe Asp Pro Glu Ala Cys Ser Phe Arg
85 90 95

Glu Leu Leu Leu Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala His
100 105 110

Gly Leu Pro Leu His Leu Pro Gly Asn Lys Ser Pro His Arg Asp Pro
115 120 125

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ala Pro Arg Gly Pro Ala Arg Phe Leu Pro Leu Pro Gly Leu Pro Pro
130 135 140

Ala Pro Pro Glu Pro Pro Gly Ile Leu Ala Pro Gln Pro Pro Asp Val
145 150 155 160

Gly Ser Ser Asp Pro Leu Ser Met Val Gly Pro Ser Gln Gly Arg Ser
165 170 175

Pro Ser Tyr Ala Ser
180

<210> 73
<211> 212
<212> PRT
<213> Homo sapiens
<400> 73

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val
1 5 10 15

Arg Gln Arg Tyr Leu Tyr Thr Asp Asp Ala Gln Gln Thr Glu Ala His
20 25 30

Leu Glu Ile Arg Glu Asp Gly Thr Val Gly Gly Ala Ala Asp Gln Ser
35 40 45

Pro Glu Ser Leu Leu Gln Leu Lys Ala Leu Lys Pro Gly Val Ile Gln
50 55 60

Ile Leu Gly Val Lys Thr Ser Arg Phe Leu Cys Gln Arg Pro Asp Gly
65 70 75 80

Ala Leu Tyr Gly Ser Leu His Phe Asp Pro Glu Ala Cys Ser Phe Arg
85 90 95

Glu Leu Leu Leu Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala His
100 105 110

Gly Leu Pro Leu His Leu Pro Gly Asn Lys Ser Pro His Arg Asp Pro
115 120 125

Ala Pro Arg Gly Pro Ala Arg Phe Leu Pro Leu Pro Gly Leu Pro Pro
130 135 140

Ala Leu Pro Glu Pro Pro Gly Ile Leu Ala Pro Gln Pro Pro Asp Val
145 150 155 160

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gly Ser Ser Asp Pro Leu Ser Met Val Val Gln Asp Glu Leu Gln Gly
165 170 175

Val Gly Gly Glu Gly Cys His Met His Pro Glu Asn Cys Lys Thr Leu
180 185 190

Leu Thr Asp Ile Asp Arg Thr His Thr Glu Lys Pro Val Trp Asp Gly
195 200 205

Ile Thr Gly Glu
210

<210> 74
<211> 189
<212> PRT
<213> Homo sapiens
<400> 74

Arg Asp Ala Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg
1 5 10 15

Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe
20 25 30

Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
35 40 45

Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala
50 55 60

Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly
65 70 75 80

Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu
85 90 95

Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His
100 105 110

Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys
115 120 125

Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met
130 135 140

Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met
145 150 155 160

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val
165 170 175

Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 75
<211> 184
<212> PRT
<213> Homo sapiens

<400> 75

Arg Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg His Leu Tyr
1 5 10 15

Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala
20 25 30

Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His Ser Leu Leu
35 40 45

Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly Val His
50 55 60

Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln Gly Leu
65 70 75 80

Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro
85 90 95

Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro Val Ser
100 105 110

Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu
115 120 125

Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro
130 135 140

Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu
145 150 155 160

Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala
165 170 175

Val Arg Ser Pro Ser Phe Glu Lys
180

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<210> 76

<211> 179

<212> PRT

<213> Homo sapiens

<400> 76

Arg Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His
1 5 10 15

Gly Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp
20 25 30

Cys Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val
35 40 45

Ala Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu
50 55 60

Cys Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu
65 70 75 80

Glu Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val
85 90 95

Tyr Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys
100 105 110

Gln Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe
115 120 125

Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly
130 135 140

His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met
145 150 155 160

Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser
165 170 175

Phe Glu Lys

<210> 77

<211> 175

<212> PRT

<213> Homo sapiens

<400> 77

Arg Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser

1 5 10 15

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
20 25 30

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
35 40 45

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
50 55 60

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
65 70 75 80

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
85 90 95

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
100 105 110

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
115 120 125

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
130 135 140

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
145 150 155 160

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
165 170 175

<210> 78
<211> 188
<212> PRT
<213> Homo sapiens

<400> 78

Arg Ala Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu
1 5 10 15

Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
20 25 30

Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala
35 40 45

His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile

Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys
65 70 75 80

Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu
85 90 95

Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg
100 105 110

Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn
115 120 125

Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val
130 135 140

Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe
145 150 155 160

Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr
165 170 175

Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 79
<211> 187
<212> PRT
<213> Homo sapiens

<400> 79

Arg Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
1 5 10 15

His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg
20 25 30

Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His
35 40 45

Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys
50 55 60

Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met
65 70 75 80

Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu
Página 70

Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu
100 105 110

Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg
115 120 125

Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro
130 135 140

Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser
145 150 155 160

Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly
165 170 175

Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 80
<211> 186
<212> PRT
<213> Homo sapiens
<400> 80

Arg Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg His
1 5 10 15

Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg Ile
20 25 30

Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His Ser
35 40 45

Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly
50 55 60

Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln
65 70 75 80

Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile
85 90 95

Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro
100 105 110

Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly
Página 71

Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu
130 135 140

Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser
145 150 155 160

Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu
165 170 175

Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 81
<211> 185
<212> PRT
<213> Homo sapiens
<400> 81

Arg His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg His Leu
1 5 10 15

Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg Ile Arg
20 25 30

Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His Ser Leu
35 40 45

Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly Val
50 55 60

His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln Gly
65 70 75 80

Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile Arg
85 90 95

Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro Val
100 105 110

Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly Phe
115 120 125

Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu Glu
130 135 140

Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro
Página 72

145

150

155

160

Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu
165 170 175

Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 82
<211> 194
<212> PRT
<213> Homo sapiens
<400> 82

Arg Pro Leu Ala Phe Ser Ala Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
Página 73

Glu Lys

<210> 83
<211> 194
<212> PRT
<213> Homo sapiens
<400> 83

Arg Pro Leu Ala Phe Ser Asp Ala Ala Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<210> 84
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 84

Arg Pro Leu Ala Phe Ser Asp Ala Gly Ala His Val His Tyr Gly Trp
 1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
 20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
 35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
 50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
 65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
 85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
 100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
 115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
 130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
 145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
 165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
 180 185 190

Glu Lys

<210> 85

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<211> 194

<212> PRT

<213> Homo sapiens

<400> 85

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Ala
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 86

<211> 194

<212> PRT

<213> Homo sapiens

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<400> 86

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Ala Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 87

<211> 167

<212> PRT

<213> Homo sapiens

<400> 87

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gly Asp Ala Ile Cys Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu
20 25 30

Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly Val His Ser
35 40 45

Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu
50 55 60

Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp
65 70 75 80

Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu
85 90 95

Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro
100 105 110

Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu
115 120 125

Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu
130 135 140

Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val
145 150 155 160

Arg Ser Pro Ser Phe Glu Lys
165

<210> 88
<211> 194
<212> PRT
<213> Homo sapiens

<400> 88

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro Ala Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ala His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 89
<211> 194
<212> PRT
<213> Homo sapiens
<400> 89

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro Ala Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser Ala Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 90
<211> 194
<212> PRT
<213> Homo sapiens

<400> 90

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Ala Gln
115 120 125

Ala Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 91
<211> 194
<212> PRT
<213> Homo sapiens

<400> 91

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Ala Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ala His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 92
<211> 194
<212> PRT
<213> Homo sapiens

<400> 92

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Ala Gln
115 120 125

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser Ala Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 93
<211> 194
<212> PRT
<213> Homo sapiens
<400> 93

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Ala Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ala His Phe Leu
130 135 140

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 94
<211> 194
<212> PRT
<213> Homo sapiens

<400> 94

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ala Ala Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 95
<211> 194
<212> PRT
<213> Homo sapiens

<400> 95

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Ala Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser Ala Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 96
<211> 194
<212> PRT
<213> Homo sapiens

<400> 96

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Ala Gln
115 120 125

Ala Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ala His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Glu Lys

<210> 97
 <211> 194
 <212> PRT
 <213> Homo sapiens
 <400> 97

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
 1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
 20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
 35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
 50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
 65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
 85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
 100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Ala Gln
 115 120 125

Ala Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser Ala Phe Leu
 130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
 145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
 165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
 180 185 190

Glu Lys

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<210> 98
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 98

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
 1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
 20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
 35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
 50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
 65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
 85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
 100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Ala Gln
 115 120 125

Ala Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ala Ala Phe Leu
 130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
 145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
 165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
 180 185 190

Glu Lys

<210> 99
 <211> 194

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<212> PRT

<213> Homo sapiens

<400> 99

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 100

<211> 181

<212> PRT

<213> Homo sapiens

<400> 100

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val
1 5 10 15

Arg Gln Arg Tyr Leu Tyr Thr Asp Asp Ala Gln Gln Thr Glu Ala His
20 25 30

Leu Glu Ile Arg Glu Asp Gly Thr Val Gly Gly Ala Ala Asp Gln Ser
35 40 45

Pro Glu Ser Leu Leu Gln Leu Lys Ala Leu Lys Pro Gly Val Ile Gln
50 55 60

Ile Leu Gly Val Lys Thr Ser Arg Phe Leu Cys Gln Arg Pro Asp Gly
65 70 75 80

Ala Leu Tyr Gly Ser Leu His Phe Asp Pro Glu Ala Cys Ser Phe Arg
85 90 95

Glu Leu Leu Leu Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala His
100 105 110

Gly Leu Pro Leu His Leu Pro Gly Asn Lys Ser Pro His Arg Asp Pro
115 120 125

Ala Pro Arg Gly Pro Ala Arg Phe Leu Pro Leu Pro Gly Leu Pro Pro
130 135 140

Ala Leu Pro Glu Pro Pro Gly Ile Leu Ala Pro Gln Pro Pro Asp Val
145 150 155 160

Gly Ser Ser Asp Pro Leu Ser Met Val Gly Pro Ser Gln Gly Arg Ser
165 170 175

Pro Ser Tyr Ala Ser
180

<210> 101
<211> 4
<212> PRT
<213> Homo sapiens

<400> 101

Val His Tyr Gly
1

<210> 102
<211> 9
<212> PRT

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<213> Homo sapiens

<400> 102

Asp Ala Ser Pro His Val His Tyr Gly
1 5

<210> 103

<211> 9

<212> PRT

<213> Homo sapiens

<400> 103

Asp Ser Ser Pro Leu Val His Tyr Gly
1 5

<210> 104

<211> 7

<212> PRT

<213> Homo sapiens

<400> 104

Asp Ser Ser Pro Leu Leu Gln
1 5

<210> 105

<211> 12

<212> PRT

<213> Homo sapiens

<400> 105

Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val
1 5 10

<210> 106

<211> 5

<212> PRT

<213> Homo sapiens

<400> 106

Arg His Pro Ile Pro
1 5

<210> 107

<211> 4

<212> PRT

<213> Homo sapiens

<400> 107

His Pro Ile Pro
1

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<210> 108
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 108

Arg Pro Leu Ala Phe
 1 5

<210> 109
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 109

Pro Leu Ala Phe
 1

<210> 110
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 110

Met Asp Ser Ser Pro Leu
 1 5

<210> 111
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 111

Met Ser Asp Ser Ser Pro Leu
 1 5

<210> 112
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 112

Ser Asp Ser Ser Pro Leu
 1 5

<210> 113
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 113

Met Ser Ser Pro Leu

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

1

5

<210> 114
<211> 4
<212> PRT
<213> Homo sapiens

<400> 114

Ser Ser Pro Leu

1

<210> 115
<211> 4
<212> PRT
<213> Homo sapiens

<400> 115

Arg Asp Ser Ser

1

<210> 116
<211> 4
<212> PRT
<213> Homo sapiens

<400> 116

Met Asp Ser Ser

1

<210> 117
<211> 5
<212> PRT
<213> Homo sapiens

<400> 117

Met Arg Asp Ser Ser

1

5

<210> 118
<211> 5
<212> PRT
<213> Homo sapiens

<400> 118

Met Ser Ser Pro Leu

1

5

<210> 119
<211> 6
<212> PRT
<213> Homo sapiens

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<400> 119

Met Asp Ser Ser Pro Leu
1 5

<210> 120

<211> 7

<212> PRT

<213> Homo sapiens

<400> 120

Met Ser Asp Ser Ser Pro Leu
1 5

<210> 121

<211> 5

<212> PRT

<213> Homo sapiens

<400> 121

Asp Ser Ser Pro Leu
1 5

<210> 122

<211> 5

<212> PRT

<213> Homo sapiens

<400> 122

Asp Ala Ser Pro His
1 5

<210> 123

<211> 4

<212> PRT

<213> Homo sapiens

<400> 123

Arg Asp Ser Ser
1

<210> 124

<211> 4

<212> PRT

<213> Homo sapiens

<400> 124

Met Asp Ser Ser
1

<210> 125

<211> 5

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<212> PRT
<213> Homo sapiens

<400> 125

Met Arg Asp Ser Ser
1 5

<210> 126
<211> 6
<212> PRT
<213> Homo sapiens

<400> 126

Met Asp Ser Ser Pro Leu
1 5

<210> 127
<211> 7
<212> PRT
<213> Homo sapiens

<400> 127

Met Ser Asp Ser Ser Pro Leu
1 5

<210> 128
<211> 5
<212> PRT
<213> Homo sapiens

<400> 128

Met Ser Ser Pro Leu
1 5

<210> 129
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Linker sequence

<400> 129

Gly Ser Gly Gly Ser
1 5

<210> 130
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Linker sequence

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<400> 130

Gly Gly Gly Ser
1

<210> 131

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker sequence

<400> 131

Gly Gly Ser Gly
1

<210> 132

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker sequence

<400> 132

Gly Gly Ser Gly Gly
1 5

<210> 133

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker sequence

<400> 133

Gly Ser Gly Ser Gly
1 5

<210> 134

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker sequence

<400> 134

Gly Ser Gly Gly Gly
1 5

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<210> 135
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Linker sequence

<400> 135

Gly Ser Ser Ser Gly
 1 5

<210> 136
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Forward primer

<400> 136
 ccgactagtc accatgcgga gcgggtgtgt gg 32

<210> 137
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Reverse primer

<400> 137
 ataagaatgc ggccgcttac ttctcaaagc tgggactcct c 41

<210> 138
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 138

Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val Arg Leu Arg His
 1 5 10 15

Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg Ile
 20 25 30

Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His Ser
 35 40 45

Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly
 50 55 60

Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln
 65 70 75 80

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile
85 90 95

Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro
100 105 110

Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly
115 120 125

Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu
130 135 140

Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser
145 150 155 160

Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu
165 170 175

Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 139
<211> 194
<212> PRT
<213> Homo sapiens
<400> 139

Arg Pro Leu Ala Phe Ser Asp Ala Ser Pro His Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 140
<211> 194
<212> PRT
<213> Homo sapiens

<400> 140

Arg Pro Leu Ala Phe Ser Asp Ser Ser Pro Leu Val His Tyr Gly Trp
1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
115 120 125

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
180 185 190

Glu Lys

<210> 141
<211> 188
<212> PRT
<213> Homo sapiens
<400> 141

Asp Ser Ser Pro Leu Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu
1 5 10 15

Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
20 25 30

Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala
35 40 45

His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile
50 55 60

Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys
65 70 75 80

Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu
85 90 95

Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg
100 105 110

Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn
115 120 125

Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val
130 135 140

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe
145 150 155 160

Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr
165 170 175

Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 142
<211> 193
<212> PRT
<213> Homo sapiens

<400> 142

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Trp Gly
1 5 10 15

Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu
20 25 30

Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala
35 40 45

Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu
50 55 60

Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met
65 70 75 80

Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp
85 90 95

Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
100 105 110

Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg
115 120 125

Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro
130 135 140

Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
145 150 155 160

Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro
165 170 175

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu
180 185 190

Lys

<210> 143
<211> 191
<212> PRT
<213> Homo sapiens

<400> 143

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Trp Gly Asp Pro
1 5 10 15

Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<210> 144
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 144

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Leu Leu Gln Phe Gly Trp
 1 5 10 15

Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly
 20 25 30

Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys
 35 40 45

Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala
 50 55 60

Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys
 65 70 75 80

Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu
 85 90 95

Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr
 100 105 110

Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
 115 120 125

Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu
 130 135 140

Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His
 145 150 155 160

Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp
 165 170 175

Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe
 180 185 190

Glu Lys

<210> 145
 <211> 193

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<212> PRT

<213> Homo sapiens

<400> 145

Arg His Pro Ile Pro Asp Ser Ser Pro His Val His Tyr Gly Trp Gly
1 5 10 15

Asp Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu
20 25 30

Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala
35 40 45

Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu
50 55 60

Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met
65 70 75 80

Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp
85 90 95

Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
100 105 110

Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg
115 120 125

Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro
130 135 140

Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
145 150 155 160

Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro
165 170 175

Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu
180 185 190

Lys

<210> 146

<211> 192

<212> PRT

<213> Homo sapiens

<400> 146

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro Leu Leu Gln Phe Gly Gly
1 5 10 15

Gln Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 147
<211> 191
<212> PRT
<213> Homo sapiens

<400> 147

Arg His Pro Ile Pro Asp Ser Ser Pro His Val His Tyr Gly Gly Gln
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 148
<211> 187
<212> PRT
<213> Homo sapiens

<400> 148

Arg Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val Arg Leu Arg
1 5 10 15

His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg
20 25 30

Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His
35 40 45

Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys
50 55 60

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met
65 70 75 80

Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu
85 90 95

Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu
100 105 110

Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg
115 120 125

Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro
130 135 140

Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser
145 150 155 160

Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly
165 170 175

Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 149
<211> 192
<212> PRT
<213> Homo sapiens

<400> 149

Arg Pro Leu Ala Phe Ser Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly
1 5 10 15

Gln Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 150
<211> 191
<212> PRT
<213> Homo sapiens

<400> 150

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Ala Gln
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
 130 135 140

 Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
 145 150 155 160

 Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
 165 170 175

 Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
 180 185 190

 <210> 151
 <211> 191
 <212> PRT
 <213> Homo sapiens

 <400> 151

 Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Asp Gln
 1 5 10 15

 Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
 20 25 30

 Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
 35 40 45

 Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
 50 55 60

 Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
 65 70 75 80

 Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
 85 90 95

 Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
 100 105 110

 Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
 115 120 125

 Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
 130 135 140

 Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
 145 150 155 160

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 152
<211> 191
<212> PRT
<213> Homo sapiens

<400> 152

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Pro Gln
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<210> 153
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 153

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Ala
 1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
 20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
 35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
 50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
 65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
 85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
 100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
 115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
 130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
 145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
 165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
 180 185 190

<210> 154
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 154

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Glu
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 155
<211> 191
<212> PRT
<213> Homo sapiens

<400> 155

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Asn
1 5 10 15

Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 156
<211> 191
<212> PRT
<213> Homo sapiens

<400> 156

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln
1 5 10 15

Ala Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 157
<211> 191
<212> PRT
<213> Homo sapiens

<400> 157

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln
1 5 10 15

Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
130 135 140

Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
145 150 155 160

Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
165 170 175

Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 158
<211> 191
<212> PRT
<213> Homo sapiens
<400> 158

Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln
1 5 10 15

Thr Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser
20 25 30

Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly
35 40 45

Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr
50 55 60

Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
65 70 75 80

Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala
85 90 95

Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu
100 105 110

Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu
115 120 125

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu
 130 135 140
 Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser
 145 150 155 160
 Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly
 165 170 175
 Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
 180 185 190
 <210> 159
 <211> 193
 <212> PRT
 <213> Homo sapiens
 <400> 159
 Arg His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Trp Gly
 1 5 10 15
 Gln Pro Val Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu
 20 25 30
 Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala
 35 40 45
 Arg Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu
 50 55 60
 Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met
 65 70 75 80
 Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp
 85 90 95
 Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
 100 105 110
 Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg
 115 120 125
 Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro
 130 135 140
 Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu
 145 150 155 160

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro
165 170 175

Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu
180 185 190

Lys

<210> 160
<211> 190
<212> PRT
<213> Homo sapiens

<400> 160

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val
1 5 10 15

Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys
20 25 30

Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln
35 40 45

Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
50 55 60

Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp
65 70 75 80

Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe
85 90 95

Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys
100 105 110

His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr
115 120 125

Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro
130 135 140

Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp
145 150 155 160

Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu
165 170 175

NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

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Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
      180      185      190

<210> 161
<211> 186
<212> PRT
<213> Homo sapiens

<400> 161

Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val Arg Leu Arg His
1      5      10      15

Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg Ile
      20      25      30

Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His Ser
      35      40      45

Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly
      50      55      60

Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln
65      70      75      80

Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile
      85      90      95

Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro
      100     105     110

Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly
      115     120     125

Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu
      130     135     140

Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser
145     150     155     160

Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu
      165     170     175

Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
      180     185

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<210> 162
<211> 190
<212> PRT
<213> Homo sapiens

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NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing

<400> 162

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Trp Gly Asp Pro Ile
1 5 10 15

Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys
20 25 30

Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln
35 40 45

Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
50 55 60

Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp
65 70 75 80

Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe
85 90 95

Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys
100 105 110

His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr
115 120 125

Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro
130 135 140

Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp
145 150 155 160

Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu
165 170 175

Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 163

<211> 192

<212> PRT

<213> Homo sapiens

<400> 163

His Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
50 55 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 164
<211> 192
<212> PRT
<213> Homo sapiens

<400> 164

His Pro Ile Pro Asp Ser Ser Pro His Val His Tyr Gly Trp Gly Asp
1 5 10 15

Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser
20 25 30

Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg
35 40 45

Gly Gln Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg
Página 120

50 NAI_1500342487_1_131254-026003_13370-003-026_Sequence Listing 60

Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly
65 70 75 80

Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
85 90 95

Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser
100 105 110

Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln
115 120 125

Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met
130 135 140

Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu
145 150 155 160

Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe
165 170 175

Gly Leu Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 165
<211> 190
<212> PRT
<213> Homo sapiens
<400> 165

His Pro Ile Pro Asp Ser Ser Pro His Val His Tyr Gly Gly Gln Val
1 5 10 15

Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys
20 25 30

Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln
35 40 45

Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
50 55 60

Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp
65 70 75 80

Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe
Página 121

Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys
100 105 110

His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr
115 120 125

Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro
130 135 140

Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp
145 150 155 160

Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu
165 170 175

Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185 190

<210> 166
<211> 188
<212> PRT
<213> Homo sapiens
<400> 166

Asp Ala Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu
1 5 10 15

Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
20 25 30

Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala
35 40 45

His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile
50 55 60

Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys
65 70 75 80

Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu
85 90 95

Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg
100 105 110

Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn
Página 122

Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val
130 135 140

Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe
145 150 155 160

Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr
165 170 175

Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
180 185

<210> 167
<211> 183
<212> PRT
<213> Homo sapiens

<400> 167

Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg His Leu Tyr Thr
1 5 10 15

Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp
20 25 30

Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His Ser Leu Leu Glu
35 40 45

Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly Val His Ser
50 55 60

Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu
65 70 75 80

Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp
85 90 95

Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu
100 105 110

Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro
115 120 125

Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu
130 135 140

Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu
Página 123

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145          150          155          160
Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val
          165          170          175

Arg Ser Pro Ser Phe Glu Lys
          180

<210> 168
<211> 174
<212> PRT
<213> Homo sapiens

<400> 168
Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys
1          5          10          15

Phe Leu Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln
          20          25          30

Ser Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
          35          40          45

Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp
          50          55          60

Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe
65          70          75          80

Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys
          85          90          95

His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr
          100          105          110

Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro
          115          120          125

Met Val Pro Glu Glu Pro Glu Asp Leu Arg Gly His Leu Glu Ser Asp
          130          135          140

Met Phe Ser Ser Pro Leu Glu Thr Asp Ser Met Asp Pro Phe Gly Leu
145          150          155          160

Val Thr Gly Leu Glu Ala Val Arg Ser Pro Ser Phe Glu Lys
          165          170

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