

103513

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<120> BINDING MEMBERS-513

<130> 103513-1

<150> US 61/112381

<151> 2008-11-07

<160> 152

<170> Cambridge Antibody Technology patent software version 1.0

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

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Gly

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gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tggactccgg 240
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 35 40 45
 Val Lys Trp Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
 65 70 75 80
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35 40 45
Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Lys Pro Leu Tyr Tyr Tyr Asp Ala Pro Pro Pro Leu Gly Tyr Asp
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Ser Tyr Ala Met Ser
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Gly

<210> 15
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Asp Ile

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cttccaggga cagcccccaa gctcctcatc tatggtgaca cccatcggcc ctcaggggctc 180
cctgaccgat tctctggctc caagtctggc acctcagcct ccctgggtcat cgctgggctc 240
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catttcggcg gagggaccaa gctgaccgtc cta 333

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<213> Homo sapiens

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Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Val Ile Ala Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Ala
85 90 95
Gly Gly Gly His His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

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<210> 20
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<400> 20
Gln Ser Tyr Asp Thr Ala Gly Gly Gly His His
5 10

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gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
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20 25 30
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35 40 45
Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Lys Pro Leu Tyr Tyr Tyr Asp Glu Gln Tyr Gly Val Val Tyr Asp
100 105 110
Ala Phe Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser
115 120 125

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<400> 23
Ser Tyr Ala Met Ser
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<210> 24
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<400> 24
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Gly

<210> 25
<211> 17
<212> PRT
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<400> 25
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Val

<210> 26
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<212> DNA
<213> Homo sapiens

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cttccaggga cagcccccaa gctcctcatc tatggtgaca cccatcggcc ctcaggggctc 180
cctgaccgat tctctggctc caagtctggc acctcagcct ccctggccat cactgggctc 240
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gtgttcggcg gagggaccaa gctgaccgtc cta 333

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<213> Homo sapiens

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Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45

Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Val
 85 90 95
 Arg Leu His His Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

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Ala Met Ser Trp Val Arg Gln	Ala Pro Gly Lys Gly	Leu Glu Trp Val
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50	55	60
Lys Gly Arg Phe Thr Ile	Ser Arg Asp Asn Ser	Lys Asn Thr Leu Tyr
65	70	75
Leu Gln Met Asn Ser	Leu Arg Ala Glu Asp	Thr Ala Val Tyr Tyr Cys
85	90	95
Ala Lys Pro Leu Tyr Tyr Tyr	Asp Ala Ala Pro Pro Leu	Gly Tyr Asp
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Gly Phe Asp Ile Trp Gly Arg	Gly Thr Met Val Thr	Val Ser Ser
115	120	125

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 Ser Tyr Ala Met Ser
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<210> 34
 <211> 17
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<400> 34
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Gly

<210> 35
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<400> 35
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Asp Ile

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 cagttcggtg gagggaccaa gctgaccgtc cta 333

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

<210> 38
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<210> 39
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 <213> Homo sapiens

<400> 39
 Gly Asp Thr His Arg Pro Ser
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<210> 40
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<400> 40
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<210> 41
 <211> 381

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<212> DNA
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ccaggggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agccgaggac acggccgtgt attactgtgc gaaacccttg 300
tactactatg atgcaccttc ccccctaggg tatgatggtt ttgatatctg gggccggggg 360
acactgggtca ccgtctcctc a 381

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<213> Homo sapiens

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

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<213> Homo sapiens

<400> 43
Ser Tyr Ala Met Ser
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<210> 44
<211> 17
<212> PRT
<213> Homo sapiens

<400> 44
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
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Gly

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

<400> 45
 Pro Leu Tyr Tyr Tyr Asp Ala Pro Ser Pro Leu Gly Tyr Asp Gly Phe
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Asp Ile

<210> 46
 <211> 333
 <212> DNA
 <213> Homo sapiens

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 cttccaggga cagcccccaa gctcctcatc tatggtgaca cccatcggcc ctcagggggtc 180
 cctgaccgat tctctggctc caagtctggc acctcagcct ccctggccat cactgggctc 240
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 gtgttcggcg gagggaccaa gctgaccgtc cta 333

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 Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
 35 40 45
 Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr His
 85 90 95
 Leu Val Ala His Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

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 <211> 14
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<213> Homo sapiens

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Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His
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<211> 7
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Gly Asp Thr His Arg Pro Ser
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<210> 50
<211> 11
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<213> Homo sapiens

<400> 50
Gln Ser Tyr Asp Thr His Leu Val Ala His Val
5 10

<210> 51
<211> 381
<212> DNA
<213> Homo sapiens

<400> 51
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ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggttag cacatactac 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
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tactactatg atgagcagta tggactagta tatgatgctt ttgatatcgg gggccggggg 360
aactgtgtca ccgtctcttc a 381

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<212> PRT
<213> Homo sapiens

<400> 52
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20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 45
35 40 45
Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 60
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 80
65 70 75 80

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Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Pro Leu Tyr Tyr Tyr Asp Glu Gln Tyr Gly Leu Val Tyr Asp
100 105 110

Ala Phe Asp Ile Gly Gly Arg Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 53
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<212> PRT
<213> Homo sapiens

<400> 53
Ser Tyr Ala Met Ser
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<210> 54
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<212> PRT
<213> Homo sapiens

<400> 54
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
5 10 15

Gly

<210> 55
<211> 18
<212> PRT
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<400> 55
Pro Leu Tyr Tyr Tyr Asp Glu Gln Tyr Gly Leu Val Tyr Asp Ala Phe
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Asp Ile

<210> 56
<211> 333
<212> DNA
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cttccaggga cagcccccaa gctcctcatc tatggtgaca cccatcggcc ctcaggggctc 180
cctgaccgat tctctggctc caagtctggc acctcagcct ccctggccat cactgggctc 240
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caattcggcg gagggaccaa gctgaccgtc cta 333

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<212> PRT
<213> Homo sapiens

<400> 57
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Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
20 25 30
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Leu
85 90 95
Leu Leu Ala Pro Gln Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

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<211> 14
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<400> 58
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5 10

<210> 59
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<400> 59
Gly Asp Thr His Arg Pro Ser
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<210> 60
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<400> 60
Gln Ser Tyr Asp Thr Leu Leu Leu Ala Pro Gln
5 10

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ccagggaagg ggctggagtg ggtctcagct attagtggtg gtggtggtg cacatactac 180

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gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat	240
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<400> 62
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 Ala Met ³⁵Ser Trp Val Arg Gln ⁴⁰Ala Pro Gly Lys Gly ⁴⁵Leu Glu Trp Val
 Ser ⁵⁰Ala Ile Ser Gly Ser ⁵⁵Gly Gly Ser Thr Tyr ⁶⁰Tyr Ala Asp Ser Val
 Lys ⁶⁵Gly Arg Phe Thr ⁷⁰Ile Ser Arg Asp Asn ⁷⁵Ser Lys Asn Thr Leu Tyr ⁸⁰
 Leu Gln Met Asn ⁸⁵Ser Leu Arg Ala Glu ⁹⁰Asp Thr Ala Val Tyr ⁹⁵Tyr Cys
 Ala Lys Pro ¹⁰⁰Leu Tyr Tyr Tyr Asp ¹⁰⁵Glu Gln Tyr Gly Val ¹¹⁰Val Tyr Asp
 Ala Phe ¹¹⁵Val Trp Gly Arg Gly ¹²⁰Thr Met Val Thr Val ¹²⁵Ser Ser

<210> 63
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<400> 63
 Ser Tyr Ala Met ⁵Ser

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

<400> 64
 Ala Ile Ser Gly ⁵Ser Gly Gly Ser Thr ¹⁰Tyr Tyr Ala Asp Ser ¹⁵Val Lys
 Gly

<210> 65
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 <212> PRT
 <213> Homo sapiens

103513

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Val

<210> 66
<211> 333
<212> DNA
<213> Homo sapiens

<400> 66
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cttccaggga cagcccccaa gctcctcatc tatggtgaca cccatcggcc ctcagggggtc 180
cctgaccgat tctctggctc caagtccggc acctcagcct ccctgggtcat cgctggggtc 240
caggctgagg atgaggctga ttattactgc cagtcctatg acaccgtacg tctccacccat 300
gtgttcggcg gagggaccaa gctgaccgtc cta 333

<210> 67
<211> 111
<212> PRT
<213> Homo sapiens

<400> 67
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln
5 10 15
Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
20 25 30
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Val Ile Ala Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Val
85 90 95
Arg Leu His His Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 68
<211> 14
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<213> Homo sapiens

<400> 68
Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His
5 10

<210> 69
<211> 7
<212> PRT

103513

<213> Homo sapiens

<400> 69
Gly Asp Thr His Arg Pro Ser
5

<210> 70
<211> 11
<212> PRT
<213> Homo sapiens

<400> 70
Gln Ser Tyr Asp Thr Val Arg Leu His His Val
5 10

<210> 71
<211> 381
<212> DNA
<213> Homo sapiens

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ccaggggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agccgaggac acggccgtgt attactgtgc gaaacccttg 300
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acaatgggtca ccgtctcgag t 381

<210> 72
<211> 127
<212> PRT
<213> Homo sapiens

<400> 72
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 45
Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 95
Ala Lys Pro Leu Tyr Tyr Tyr Asp Ala Pro Ser Pro Leu Gly Tyr Asp 110
Gly Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 125

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<213> Homo sapiens

<400> 73
Ser Tyr Ala Met Ser
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<210> 74
<211> 17
<212> PRT
<213> Homo sapiens

<400> 74
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
5 10 15

Gly

<210> 75
<211> 18
<212> PRT
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<400> 75
Pro Leu Tyr Tyr Tyr Asp Ala Pro Ser Pro Leu Gly Tyr Asp Gly Phe
5 10 15

Asp Ile

<210> 76
<211> 333
<212> DNA
<213> Homo sapiens

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cttccagggg cagcccccaa gctcctcatc tatggtgaca cccatcggcc ctcagggggtc 180
cctgaccgat tctctggctc caagtctggc acctcagcct ccctgggtcat cgctggggtc 240
caggctgagg atgaggctga ttattactgc cagtcctatg acaccacct tgtcgcacac 300
gtgttcggcg gagggaccaa gctgaccgtc cta 333

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<211> 111
<212> PRT
<213> Homo sapiens

<400> 77
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Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
20 25 30

103513

Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
 35 40 45

Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Val Ile Ala Gly Leu
 65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr His
 85 90 95

Leu Val Ala His Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 78
 <211> 14
 <212> PRT
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<400> 78
 Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His
 5 10

<210> 79
 <211> 7
 <212> PRT
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<400> 79
 Gly Asp Thr His Arg Pro Ser
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<210> 80
 <211> 11
 <212> PRT
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<400> 80
 Gln Ser Tyr Asp Thr His Leu Val Ala His Val
 5 10

<210> 81
 <211> 381
 <212> DNA
 <213> Homo sapiens

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 ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
 gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatga acagcctgag agccgaggac acggccgtgt attactgtgc gaaacccttg 300
 tactactatg atgaatcact agctctacct gtgtatgatg ctgatatctg gggccggggg 360
 aactgggtca ccgtctcctc a 381

<210> 82

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<211> 127
<212> PRT
<213> Homo sapiens

<400> 82
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Lys Pro Leu Tyr Tyr Tyr Asp Glu Ser Leu Ala Leu Pro Val Tyr
100 105 110
Asp Ala Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 83
<211> 5
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<213> Homo sapiens

<400> 83
Ser Tyr Ala Met Ser
5

<210> 84
<211> 17
<212> PRT
<213> Homo sapiens

<400> 84
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
5 10 15
Gly

<210> 85
<211> 18
<212> PRT
<213> Homo sapiens

<400> 85
Pro Leu Tyr Tyr Tyr Asp Glu Ser Leu Ala Leu Pro Val Tyr Asp Ala
5 10 15
Asp Ile

<210> 86
<211> 333

103513

<212> DNA
<213> Homo sapiens

<400> 86
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cttccaggga cagcccccaa gctcctcatc tatggtgaca cccatcggcc ctcaggggctc 180
cctgaccgat tctctggctc caagtctggc acctcagcct ccctggccat cactgggctc 240
caggctgagg atgaggctga ttattactgc cagtcctatg acacccgagc cgacgatgct 300
cacttcggcg gaggaaccaa gctgaccgtc cta 333

<210> 87
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<212> PRT
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<400> 87
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Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
20 25 30
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Arg
85 90 95
Ala Asp Asp Ala His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 88
<211> 14
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<400> 88
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5 10

<210> 89
<211> 7
<212> PRT
<213> Homo sapiens

<400> 89
Gly Asp Thr His Arg Pro Ser
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<210> 90
<211> 11
<212> PRT

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<213> Homo sapiens

<400> 90
Gln Ser Tyr Asp Thr Arg Ala Asp Asp Ala His
5 10

<210> 91
<211> 378
<212> DNA
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ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agccgaggac acggccgtgt attactgtgc aagagatggc 300
gcgagtagta ccaattgggg atacaactac tacggtatgg acgtctgggg gcgggggacc 360
acggtcaccg tctcctca 378

<210> 92
<211> 126
<212> PRT
<213> Homo sapiens

<400> 92
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Asp Gly Ala Ser Ser Thr Asn Trp Gly Tyr Asn Tyr Tyr Gly
100 105 110
Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser
115 120 125

<210> 93
<211> 5
<212> PRT
<213> Homo sapiens

<400> 93
Ser Tyr Ala Met Ser
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<210> 94
<211> 17
<212> PRT
<213> Homo sapiens

<400> 94
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
5 10 15

Gly

<210> 95
<211> 17
<212> PRT
<213> Homo sapiens

<400> 95
Asp Gly Ala Ser Ser Thr Asn Trp Gly Tyr Asn Tyr Tyr Gly Met Asp
5 10 15

Val

<210> 96
<211> 330
<212> DNA
<213> Homo sapiens

<400> 96
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ccagggtacgg ccccccaact cctcgtcaaa tggaataatc agcggccctc aggggtcctt 180
gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tggactccgg 240
tccgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgag tggctctggta 300
ttcggcggag ggaccaagct gaccgtccta 330

<210> 97
<211> 110
<212> PRT
<213> Homo sapiens

<400> 97
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Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Tyr Val Phe Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Gln Leu Leu
35 40 45

Val Lys Trp Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
Page 24

85 103513 95
 90
 Ser Gly Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 98
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 98
 Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Phe
 5 10

<210> 99
 <211> 7
 <212> PRT
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<400> 99
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<210> 100
 <211> 11
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 <213> Homo sapiens

<400> 100
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 5 10

<210> 101
 <211> 381
 <212> DNA
 <213> Homo sapiens

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 tcctgtgcag cctctggatt cacctttagc agctatgcca tgagctgggt ccgccaggct 120
 ccagggaagg ggctggagtg ggtctcagct attagtggtg gtggtggtag cacatactac 180
 gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatac acagcctgag agccgaggac acggccgtgt attactgtgc gaaacccttg 300
 tactactatg atggtagtga ttatacgact tatgatgctt ttgatattctg gggccggggg 360
 acaatgggtca ccgtctcctc a 381

<210> 102
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 102
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

103513

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

<210> 103
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 103
 Ser Tyr Ala Met Ser
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<210> 104
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 104
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 5 10 15

Gly

<210> 105
 <211> 18
 <212> PRT
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<400> 105
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 5 10 15

Asp Ile

<210> 106
 <211> 333
 <212> DNA
 <213> Homo sapiens

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 tcctgcactg ggagcagctc caacatcggg gcaggttatg atgtacactg gtaccagcag 120
 cttccaggga cagcccccaa gctcctcatc tatggtgaca cccatcggcc ctcagggggtc 180

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cctgaccgat tctctggctc caagtctggc acctcagcct ccctgggtcat cgctgggctc	240
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ctgttcggcg gagggaccaa gctgaccgtc cta	333

<210> 107
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 107
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 Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
 20 25 30
 Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
 35 40 45
 Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Val Ile Ala Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Ser
 85 90 95
 Leu Ser Gly Ser Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 108
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 108
 Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His
 5 10

<210> 109
 <211> 7
 <212> PRT
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<400> 109
 Gly Asp Thr His Arg Pro Ser
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<210> 110
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 <212> PRT
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<400> 110
 Gln Ser Tyr Asp Thr Ser Leu Ser Gly Ser Leu
 5 10

<210> 111
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<213> Homo sapiens

<400> 111

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 ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
 gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatac acagcctgag agccgaggac acggccgtgt attactgtgc gaaacccttg 300
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<211> 127

<212> PRT

<213> Homo sapiens

<400> 112

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

<210> 113

<211> 5

<212> PRT

<213> Homo sapiens

<400> 113

Ser Tyr Ala Met Ser 5

<210> 114

<211> 17

<212> PRT

<213> Homo sapiens

<400> 114

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys 15
 5 10

Gly

<210> 115
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 115
 Pro Leu Tyr Tyr Tyr Asp Glu Gln Tyr Gly Leu Val Tyr Asp Ala Phe
 5 10 15

Asp Ile

<210> 116
 <211> 333
 <212> DNA
 <213> Homo sapiens

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 cctgaccgat tctctggctc caagtctggc acctcagcct ccctgggtcat cgctgggctc 240
 caggctgagg atgaggctga ttattactgc cagtcctatg acaccctact tctcgcacca 300
 caattcggcg gagggaccaa gctgaccgtc cta 333

<210> 117
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 117
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 5 10 15
 Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
 20 25 30
 Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
 35 40 45
 Leu Ile Tyr Gly Asp Thr His Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Val Ile Ala Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Leu
 85 90 95
 Leu Leu Ala Pro Gln Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 118
 <211> 14
 <212> PRT
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<400> 118
Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His
5 10

<210> 119
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<212> PRT
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<400> 119
Gly Asp Thr His Arg Pro Ser
5

<210> 120
<211> 11
<212> PRT
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<400> 120
Gln Ser Tyr Asp Thr Leu Leu Leu Ala Pro Gln
5 10

<210> 121
<211> 378
<212> DNA
<213> Homo sapiens

<400> 121
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ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatac acagcctgag agccgaggac acggccgtgt attactgtgc aagagatggc 300
gcgagtagta ccaattgggg atacaccctg gacccgcctg gcgtgtgggg gcggggggacc 360
acggtcaccg tctcctca 378

<210> 122
<211> 126
<212> PRT
<213> Homo sapiens

<400> 122
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

103513

<213> Homo sapiens

<400> 127

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

<210> 128

<211> 13

<212> PRT

<213> Homo sapiens

<400> 128

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Phe
5 10

<210> 129

<211> 7

<212> PRT

<213> Homo sapiens

<400> 129

Trp Asn Asn Gln Arg Pro Ser
5

<210> 130

<211> 11

<212> PRT

<213> Homo sapiens

<400> 130

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5 10

<210> 131

<211> 1008

<212> DNA

<213> Macaca fascicularis

<400> 131

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gacagcaaga cacctatatc tacagaacaa gcctccagga ttcattcagca caaaaagaaa 240

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tggtataatg cagaagccat atttaagcag agactacccg ttgcaggaga tggaggactt 420
gtgtgccctt atatggagtt ttttaaagac gaaaataatg agttacctaa attactgtgg 480
tataaggatt gcaaacctct acttcttgac aatataaact ttagtggagt caaagatagg 540
ctcatcgtga tgaatgtggc tgaaaagcat agagggaact atacttgtca tgcatactac 600
acatacttgg gcaagcaata tcctattacc cgggtaatag aattttattac tctagaggaa 660
aacaaccca caaggcctgt gattgtgagc ccagctaata agacaataga agtagacttg 720
ggatcccaga tacaattgat ctgtaatgtc actggccagt tgagtgatac tgcctactgg 780
aagtggaatg ggtccttcat tgatgaagat gaccagtg c taggggaaga ctattacagt 840
gtggaaaatc ctgcaacaa aagaaggagt accctcatca cagtgcctta tatatcagaa 900
actgaaagta gatattataa acatccattt acctgttttag ccaggaatac acatggtatg 960
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<210> 132
 <211> 336
 <212> PRT
 <213> Macaca fascicularis

<400> 132

Met Lys Val Leu Leu Arg Leu Ile Cys Phe Ile Ala Leu Leu Ile Ser
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Phe Leu Glu Ala Asp Lys Cys Asn Glu Arg Glu Glu Lys Ile Ile Leu
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Val Ser Ser Ala Asn Glu Ile Asp Val Arg Pro Cys Pro Leu Asn Pro
 35 40 45

Asn Glu Tyr Lys Gly Thr Ile Thr Trp Tyr Lys Asn Asp Ser Lys Thr
 50 55 60

Pro Ile Ser Thr Glu Gln Ala Ser Arg Ile His Gln His Lys Lys Lys
 65 70 75 80

Leu Trp Phe Val Pro Ala Lys Val Glu Asp Ser Gly His Tyr Tyr Cys
 85 90 95

Val Val Arg Asn Ser Ser Tyr Cys Leu Arg Ile Lys Ile Thr Ala Lys
 100 105 110

Phe Val Glu Asn Glu Pro Asn Leu Cys Tyr Asn Ala Glu Ala Ile Phe
 115 120 125

Lys Gln Arg Leu Pro Val Ala Gly Asp Gly Gly Leu Val Cys Pro Tyr

130 135 103513 140

Met Glu Phe Phe Lys Asp Glu Asn Asn Glu Leu Pro Lys Leu Leu Trp
145 150 155 160

Tyr Lys Asp Cys Lys Pro Leu Leu Leu Asp Asn Ile Asn Phe Ser Gly
165 170 175

Val Lys Asp Arg Leu Ile Val Met Asn Val Ala Glu Lys His Arg Gly
180 185 190

Asn Tyr Thr Cys His Ala Ser Tyr Thr Tyr Leu Gly Lys Gln Tyr Pro
195 200 205

Ile Thr Arg Val Ile Glu Phe Ile Thr Leu Glu Glu Asn Lys Pro Thr
210 215 220

Arg Pro Val Ile Val Ser Pro Ala Asn Glu Thr Ile Glu Val Asp Leu
225 230 235 240

Gly Ser Gln Ile Gln Leu Ile Cys Asn Val Thr Gly Gln Leu Ser Asp
245 250 255

Thr Ala Tyr Trp Lys Trp Asn Gly Ser Phe Ile Asp Glu Asp Asp Pro
260 265 270

Val Leu Gly Glu Asp Tyr Tyr Ser Val Glu Asn Pro Ala Asn Lys Arg
275 280 285

Arg Ser Thr Leu Ile Thr Val Leu Asn Ile Ser Glu Thr Glu Ser Arg
290 295 300

Phe Tyr Lys His Pro Phe Thr Cys Leu Ala Arg Asn Thr His Gly Met
305 310 315 320

Asp Ala Ala Tyr Val Gln Leu Ile Tyr Pro Val Thr Lys Phe Gln Lys
325 330 335

<210> 133
<211> 1773
<212> DNA
<213> Homo sapiens

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gttcgtccct gtcctcttaa cccaaatgaa cacaaaggca ctataacttg gtataaagat 180
gacagcaaga cacctgtatc tacagaacaa gcctccagga ttcatcaaca caaagagaaa 240
ctttggtttg ttctgctaa ggtggaggat tcaggacatt actattgcgt ggtaagaaat 300
tcatcttact gcctcagaat taaaataagt gcaaaatttg tggagaatga gcctaactta 360

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tataaggatt	gcaaacctct	acttcttgac	aatatacact	ttagtggagt	caaagatagg	540
ctcatcgtga	tgaatgtggc	tgaaaagcat	agagggaact	atacttgtca	tgcacacctac	600
acatacttgg	gcaagcaata	tcctattacc	cgggtaatat	aattttattac	tctagaggaa	660
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ggatcccaga	tacaattgat	ctgtaatgtc	accggccagt	tgagtgacat	tgcttactgg	780
aagtgggaatg	ggtcagtaat	tgatgaagat	gaccagtgac	taggggaaga	ctattacagt	840
gtggaaaatc	ctgcaaacia	aagaaggagt	accctcatca	cagtgcctta	tatatcgga	900
attgaaagta	gattttataa	acatccattt	acctgttttg	ccaagaatac	acatgggtata	960
gatgcagcat	atatccagtt	aatatatcca	gtcactaatt	tccagaagaa	gggtgggcgc	1020
gccgaccag	ctttcttgta	caaagtgggtg	ggggccgccc	ccaaatcttg	tgacaaaact	1080
cacacatgcc	caccgtgccc	agcacctgaa	ctcctggggg	gaccgtcagt	cttcctcttc	1140
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gtggacgtga	gccacgaaga	ccctgaggtc	aagttcaact	ggtacgtgga	cggcgtggag	1260
gtgcataatg	ccaagacaaa	gccgcgggag	gagcagtaca	acagcacgta	ccgtgtgggtc	1320
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<210> 134
 <211> 589
 <212> PRT
 <213> Homo sapiens
 <400> 134

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			20					25					30		
Ser	Ser	Ala	Asn	Glu	Ile	Asp	Val	Arg	Pro	Cys	Pro	Leu	Asn	Pro	Asn
		35					40					45			

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Glu His Lys Gly Thr Ile Thr Trp Tyr Lys Asp Asp Ser Lys Thr Pro
 50 55 60
 Val Ser Thr Glu Gln Ala Ser Arg Ile His Gln His Lys Glu Lys Leu
 65 70 75 80
 Trp Phe Val Pro Ala Lys Val Glu Asp Ser Gly His Tyr Tyr Cys Val
 85 90 95
 Val Arg Asn Ser Ser Tyr Cys Leu Arg Ile Lys Ile Ser Ala Lys Phe
 100 105 110
 Val Glu Asn Glu Pro Asn Leu Cys Tyr Asn Ala Gln Ala Ile Phe Lys
 115 120 125
 Gln Lys Leu Pro Val Ala Gly Asp Gly Gly Leu Val Cys Pro Tyr Met
 130 135 140
 Glu Phe Phe Lys Asn Glu Asn Asn Glu Leu Pro Lys Leu Gln Trp Tyr
 145 150 155 160
 Lys Asp Cys Lys Pro Leu Leu Leu Asp Asn Ile His Phe Ser Gly Val
 165 170 175
 Lys Asp Arg Leu Ile Val Met Asn Val Ala Glu Lys His Arg Gly Asn
 180 185 190
 Tyr Thr Cys His Ala Ser Tyr Thr Tyr Leu Gly Lys Gln Tyr Pro Ile
 195 200 205
 Thr Arg Val Ile Glu Phe Ile Thr Leu Glu Glu Asn Lys Pro Thr Arg
 210 215 220
 Pro Val Ile Val Ser Pro Ala Asn Glu Thr Met Glu Val Asp Leu Gly
 225 230 235 240
 Ser Gln Ile Gln Leu Ile Cys Asn Val Thr Gly Gln Leu Ser Asp Ile
 245 250 255
 Ala Tyr Trp Lys Trp Asn Gly Ser Val Ile Asp Glu Asp Asp Pro Val
 260 265 270
 Leu Gly Glu Asp Tyr Tyr Ser Val Glu Asn Pro Ala Asn Lys Arg Arg
 275 280 285
 Ser Thr Leu Ile Thr Val Leu Asn Ile Ser Glu Ile Glu Ser Arg Phe
 290 295 300
 Tyr Lys His Pro Phe Thr Cys Phe Ala Lys Asn Thr His Gly Ile Asp
 305 310 315 320

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Ala Ala Tyr Ile Gln Leu Ile Tyr Pro Val Thr Asn Phe Gln Lys Lys
325 330 335

Gly Gly Arg Ala Asp Pro Ala Phe Leu Tyr Lys Val Val Gly Ala Ala
340 345 350

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
355 360 365

Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
370 375 380

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
385 390 395 400

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
405 410 415

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
420 425 430

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
435 440 445

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
450 455 460

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
465 470 475 480

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
485 490 495

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
500 505 510

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
515 520 525

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
530 535 540

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
545 550 555 560

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
565 570 575

Leu Ser Leu Ser Pro Gly Lys His His His His His
580 585

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 <212> DNA
 <213> *Macaca fascicularis*

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 gtgtgccctt atatggagtt ttttaaagac gaaaataatg agttacctaa attactgtgg 480
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 ggatcccaga tacaattgat ctgtaatgtc actggccagt tgagtgatac tgcctactgg 780
 aagtggaaatg ggtccttcat tgatgaagat gaccagtgct taggggaaga ctattacagt 840
 gtggaaaatc ctgcaaaaaa aagaaggagt accctcatca cagtgcctaa tatatcagaa 900
 actgaaagta gatattataa acatccattt acctgttttag ccaggaatac acatggatatg 960
 gatgcagcat atgtccagtt aatatatcca gtcactaaat tccagaagaa ggggtgggcgc 1020
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 ccccaaaaac ccaaggacac cctcatgatc tcccggaccc ctgaggtcac atgcgtgggtg 1200
 gtggacgtga gccacgaaga ccctgaggtc aagttcaact ggtacgtgga cggcgtggag 1260
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 tctccgggta aacatcatca tcaccacat taa 1773

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<210> 136
<211> 589
<212> PRT
<213> Macaca fascicularis

<400> 136

Lys Val Leu Leu Arg Leu Ile Cys Phe Ile Ala Leu Leu Ile Ser Phe
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Leu Glu Ala Asp Lys Cys Asn Glu Arg Glu Glu Lys Ile Ile Leu Val
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Ser Ser Ala Asn Glu Ile Asp Val Arg Pro Cys Pro Leu Asn Pro Asn
35 40 45

Glu Tyr Lys Gly Thr Ile Thr Trp Tyr Lys Asn Asp Ser Lys Thr Pro
50 55 60

Ile Ser Thr Glu Gln Ala Ser Arg Ile His Gln His Lys Lys Lys Leu
65 70 75 80

Trp Phe Val Pro Ala Lys Val Glu Asp Ser Gly His Tyr Tyr Cys Val
85 90 95

Val Arg Asn Ser Ser Tyr Cys Leu Arg Ile Lys Ile Thr Ala Lys Phe
100 105 110

Val Glu Asn Glu Pro Asn Leu Cys Tyr Asn Ala Glu Ala Ile Phe Lys
115 120 125

Gln Arg Leu Pro Val Ala Gly Asp Gly Gly Leu Val Cys Pro Tyr Met
130 135 140

Glu Phe Phe Lys Asp Glu Asn Asn Glu Leu Pro Lys Leu Leu Trp Tyr
145 150 155 160

Lys Asp Cys Lys Pro Leu Leu Leu Asp Asn Ile Asn Phe Ser Gly Val
165 170 175

Lys Asp Arg Leu Ile Val Met Asn Val Ala Glu Lys His Arg Gly Asn
180 185 190

Tyr Thr Cys His Ala Ser Tyr Thr Tyr Leu Gly Lys Gln Tyr Pro Ile
195 200 205

Thr Arg Val Ile Glu Phe Ile Thr Leu Glu Glu Asn Lys Pro Thr Arg
210 215 220

Pro Val Ile Val Ser Pro Ala Asn Glu Thr Ile Glu Val Asp Leu Gly
225 230 235 240

Ser Gln Ile Gln Leu Ile Cys Asn Val Thr Gly Gln Leu Ser Asp Thr

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245								250				255			
Ala	Tyr	Trp	Lys 260	Trp	Asn	Gly	Ser	Phe 265	Ile	Asp	Glu	Asp	Asp 270	Pro	Val
Leu	Gly	Glu 275	Asp	Tyr	Tyr	Ser	Val 280	Glu	Asn	Pro	Ala	Asn 285	Lys	Arg	Arg
Ser	Thr 290	Leu	Ile	Thr	Val	Leu 295	Asn	Ile	Ser	Glu	Thr 300	Glu	Ser	Arg	Phe
Tyr 305	Lys	His	Pro	Phe	Thr 310	Cys	Leu	Ala	Arg	Asn 315	Thr	His	Gly	Met	Asp 320
Ala	Ala	Tyr	Val	Gln 325	Leu	Ile	Tyr	Pro	Val 330	Thr	Lys	Phe	Gln	Lys 335	Lys
Gly	Gly	Arg	Ala 340	Asp	Pro	Ala	Phe	Leu 345	Tyr	Lys	Val	Val	Gly 350	Ala	Ala
Pro	Lys	Ser 355	Cys	Asp	Lys	Thr	His 360	Thr	Cys	Pro	Pro	Cys 365	Pro	Ala	Pro
Glu	Leu 370	Leu	Gly	Gly	Pro	Ser 375	Val	Phe	Leu	Phe	Pro 380	Pro	Lys	Pro	Lys
Asp 385	Thr	Leu	Met	Ile	Ser 390	Arg	Thr	Pro	Glu	Val 395	Thr	Cys	Val	Val	Val 400
Asp	Val	Ser	His	Glu 405	Asp	Pro	Glu	Val	Lys 410	Phe	Asn	Trp	Tyr	Val 415	Asp
Gly	Val	Glu	Val 420	His	Asn	Ala	Lys	Thr 425	Lys	Pro	Arg	Glu	Glu 430	Gln	Tyr
Asn	Ser	Thr 435	Tyr	Arg	Val	Val	Ser 440	Val	Leu	Thr	Val	Leu 445	His	Gln	Asp
Trp	Leu 450	Asn	Gly	Lys	Glu	Tyr 455	Lys	Cys	Lys	Val	Ser 460	Asn	Lys	Ala	Leu
Pro 465	Ala	Pro	Ile	Glu	Lys 470	Thr	Ile	Ser	Lys	Ala 475	Lys	Gly	Gln	Pro	Arg 480
Glu	Pro	Gln	Val	Tyr 485	Thr	Leu	Pro	Pro	Ser 490	Arg	Glu	Glu	Met	Thr 495	Lys
Asn	Gln	Val	Ser 500	Leu	Thr	Cys	Leu	Val 505	Lys	Gly	Phe	Tyr	Pro 510	Ser	Asp
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys

515 520 103513 525
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 530 535 540
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 545 550 555 560
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 565 570 575
 Leu Ser Leu Ser Pro Gly Lys His His His His His His
 580 585
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 <211> 336
 <212> PRT
 <213> Homo sapiens
 <400> 137
 Met Lys Val Leu Leu Arg Leu Ile Cys Phe Ile Ala Leu Leu Ile Ser
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 Ser Leu Glu Ala Asp Lys Cys Lys Glu Arg Glu Glu Lys Ile Ile Leu
 20 25 30
 Val Ser Ser Ala Asn Glu Ile Asp Val Arg Pro Cys Pro Leu Asn Pro
 35 40 45
 Asn Glu His Lys Gly Thr Ile Thr Trp Tyr Lys Asp Asp Ser Lys Thr
 50 55 60
 Pro Val Ser Thr Glu Gln Ala Ser Arg Ile His Gln His Lys Glu Lys
 65 70 75 80
 Leu Trp Phe Val Pro Ala Lys Val Glu Asp Ser Gly His Tyr Tyr Cys
 85 90 95
 Val Val Arg Asn Ser Ser Tyr Cys Leu Arg Ile Lys Ile Ser Ala Lys
 100 105 110
 Phe Val Glu Asn Glu Pro Asn Leu Cys Tyr Asn Ala Gln Ala Ile Phe
 115 120 125
 Lys Gln Lys Leu Pro Val Ala Gly Asp Gly Gly Leu Val Cys Pro Tyr
 130 135 140
 Met Glu Phe Phe Lys Asn Glu Asn Asn Glu Leu Pro Lys Leu Gln Trp
 145 150 155 160
 Tyr Lys Asp Cys Lys Pro Leu Leu Leu Asp Asn Ile His Phe Ser Gly
 165 170 175

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Val Lys Asp Arg₁₈₀ Leu Ile Val Met Asn₁₈₅ Val Ala Glu Lys His₁₉₀ Arg Gly
 Asn Tyr Thr₁₉₅ Cys His Ala Ser Tyr₂₀₀ Thr Tyr Leu Gly Lys₂₀₅ Gln Tyr Pro
 Ile Thr₂₁₀ Arg Val Ile Glu Phe₂₁₅ Ile Thr Leu Glu Glu₂₂₀ Asn Lys Pro Thr
 Arg Pro Val Ile Val Ser₂₃₀ Pro Ala Asn Glu Thr₂₃₅ Met Glu Val Asp Leu₂₄₀
 Gly Ser Gln Ile Gln₂₄₅ Leu Ile Cys Asn Val₂₅₀ Thr Gly Gln Leu Ser₂₅₅ Asp
 Ile Ala Tyr Trp₂₆₀ Lys Trp Asn Gly Ser₂₆₅ Val Ile Asp Glu Asp₂₇₀ Asp Pro
 Val Leu Gly₂₇₅ Glu Asp Tyr Tyr Ser₂₈₀ Val Glu Asn Pro Ala₂₈₅ Asn Lys Arg
 Arg Ser₂₉₀ Thr Leu Ile Thr Val₂₉₅ Leu Asn Ile Ser Glu₃₀₀ Ile Glu Ser Arg
 Phe Tyr Lys His Pro Phe₃₁₀ Thr Cys Phe Ala Lys₃₁₅ Asn Thr His Gly Ile₃₂₀
 Asp Ala Ala Tyr Ile₃₂₅ Gln Leu Ile Tyr Pro Val₃₃₀ Thr Asn Phe Gln₃₃₅ Lys

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 <211> 1012
 <212> DNA
 <213> Homo sapiens

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 tgatgttcgt ccctgtcctc ttaacccaaa tgaacacaaa ggcactataa cttggtataa 180
 agatgacagc aagacacctg tatctacaga acaagcctcc aggattcatc aacacaaaga 240
 gaaactttgg tttgttcctg ctaagggtgga ggattcagga cattactatt gcgtggttaag 300
 aaattcatct tactgcctca gaattaaaat aagtgcacaaa tttgtggaga atgagcctaa 360
 cttatgttat aatgcacaag ccatatttaa gcagaaacta cccgttgag gagacggagg 420
 acttgtgtgc ctttatatgg agttttttta aaatgaaaat aatgagttac ctaaattaca 480
 gtgggtataag gattgcaaac ctctacttct tgacaatata cacttttagtg gagtcaaaga 540
 taggctcatc gtgatgaatg tggctgaaaa gcatagaggg aactatactt gtcatgcatc 600

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 cttgggatcc cagatacaat tgatctgtaa tgtcaccggc cagttgagt acattgctta 780
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<210> 139
 <211> 336
 <212> PRT
 <213> Macaca fascicularis
 <400> 139

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Phe Leu Glu Ala Asp Lys Cys Asn Glu Arg Glu Glu Lys Ile Ile Leu
 20 25 30

Val Ser Ser Ala Asn Glu Ile Asp Val Arg Pro Cys Pro Leu Asn Pro
 35 40 45

Asn Glu Tyr Lys Gly Thr Ile Thr Trp Tyr Lys Asn Asp Ser Lys Thr
 50 55 60

Pro Ile Ser Thr Glu Gln Ala Ser Arg Ile His Gln His Lys Lys Lys
 65 70 75 80

Leu Trp Phe Val Pro Ala Lys Val Glu Asp Ser Gly His Tyr Tyr Cys
 85 90 95

Val Val Arg Asn Ser Ser Tyr Cys Leu Arg Ile Lys Ile Thr Ala Lys
 100 105 110

Phe Val Glu Asn Glu Pro Asn Leu Cys Tyr Asn Ala Glu Ala Ile Phe
 115 120 125

Lys Gln Arg Leu Pro Val Ala Gly Asp Gly Gly Leu Val Cys Pro Tyr
 130 135 140

Met Glu Phe Phe Lys Asp Glu Asn Asn Glu Leu Pro Lys Leu Leu Trp
 145 150 155 160

Tyr Lys Asp Cys Lys Pro Leu Leu Leu Asp Asn Ile Asn Phe Ser Gly
 165 170 175

Val Lys Asp Arg Leu Ile Val Met Asn Val Ala Glu Lys His Arg Gly
 180 185 190

103513

Asn Tyr Thr Cys His Ala Ser Tyr Thr Tyr Leu Gly Lys Gln Tyr Pro
195 200 205

Ile Thr Arg Val Ile Glu Phe Ile Thr Leu Glu Glu Asn Lys Pro Thr
210 215 220

Arg Pro Val Ile Val Ser Pro Ala Asn Glu Thr Ile Glu Val Asp Leu
225 230 235 240

Gly Ser Gln Ile Gln Leu Ile Cys Asn Val Thr Gly Gln Leu Ser Asp
245 250 255

Thr Ala Tyr Trp Lys Trp Asn Gly Ser Phe Ile Asp Glu Asp Asp Pro
260 265 270

Val Leu Gly Glu Asp Tyr Tyr Ser Val Glu Asn Pro Ala Asn Lys Arg
275 280 285

Arg Ser Thr Leu Ile Thr Val Leu Asn Ile Ser Glu Thr Glu Ser Arg
290 295 300

Phe Tyr Lys His Pro Phe Thr Cys Leu Ala Arg Asn Thr His Gly Met
305 310 315 320

Asp Ala Ala Tyr Val Gln Leu Ile Tyr Pro Val Thr Lys Phe Gln Lys
325 330 335

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<211> 1012
<212> DNA
<213> Macaca fascicularis

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tgatgttcgt ccctgtcctc ttaacccaaa tgaatacaaa ggcaactataa catgggtataa 180
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Lys Ser Ser Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln Lys
 35 40 45

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