

MSB7329PCT_Sequence_Listing_ST25.txt
SEQUENCE LISTING

<110> Bayer HealthCare LLC
Wang, Zhuozhi
Murphy, John
Pan, Junliang
Jiang, Haiyan
Liu, Bing

<120> Monoclonal antibodies against tissue factor pathway inhibitor (TFPI)

<130> MSB-7329 PCT

<150> US 61/085,980
<151> 2008-08-04

<160> 430

<170> PatentIn version 3.5

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35 40 45
Gly Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Glu Ala Asp Ser
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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35 40 45

Gly Asp Asn Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
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35 40 45
Val Ile Ser Gly Ser Gly Ser Ser Thr Tyr Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
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Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn
50 55 60
Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu Asp
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Ser Ser Ile Ile Ser Ser Ser Ser Glu Thr Tyr Tyr Ala Asp Ser Val
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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
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His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Val Val Ile Tyr
35 40 45

Tyr Asp Asn Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
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35 40 45

Ser Ser Ile Arg Gly Ser Ser Ser 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
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His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Gly Asp Asp Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
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35 40 45
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50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Tyr Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Thr Pro Gly Ser Asn Thr
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Ser Met Ser Trp Val Arg Gln Ala Ser Gly Lys Gly Leu Glu Trp Val
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Ser Ser Ile Lys Gly Ser Gly Ser Asn Thr Tyr Tyr Ala Asp Ser Val

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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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35 40 45
Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Asn
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
65 70 75 80
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Leu Asn Ser Ile Pro
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35 40 45
Trp Leu Gly Met Ile Tyr Tyr Arg Ser Lys Trp Tyr Asn Ser Tyr Ala
50 55 60
Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95
Tyr Tyr Cys Ala Arg Thr Met Ser Lys Tyr Gly Gly Pro Gly Met Asp
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Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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MSB7329PCT_Sequence_Listing_ST25.txt

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Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Gly Asp Met Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
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35 40 45
Ser Gly Ile Ser Tyr Asn Gly Ser Asn 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 Ile Tyr Tyr Met Asn Leu Leu Ala Gly Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
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<212> PRT
<213> Homo sapiens

<400> 34
Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln

MSB7329PCT_Sequence_Listing_ST25.txt

1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Asn Leu Arg Gly Tyr Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Glu Asp Asn Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Asp Ser Pro Tyr Val His
85 90 95

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 35
<211> 353
<212> DNA
<213> Homo sapiens

<400> 35
caggtgcaat tggttcagag cggcgcggaa gtgaaaaaac cgggcgcgag cgtgaaagtg 60
agctgcaaag cctccggata tacctttact ggtaattcta tgcattgggt ccgccaagcc 120
cctgggcagg gtctcgagtg gatgggcact atctttccgt atgatggcac tacgaagtac 180
gcgcagaagt ttcagggccg ggtgaccatg acccgtgata ccagcattag caccgcgtat 240
atggaactga gcagcctgcg tagcgaagat acggccgtgt attattgcgc gcgtggtgtt 300
cattcttatt ttgattattg gggccaaggc accctggtga cggttagctc agc 353

<210> 36
<211> 117
<212> PRT
<213> Homo sapiens

<400> 36

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Asn
20 25 30

Ser Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Thr Ile Phe Pro Tyr Asp Gly Thr Thr Lys Tyr Ala Gln Lys Phe
50 55 60

MSB7329PCT_Sequence_Listing_ST25.txt

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Gly Val His Ser Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 37
<211> 327
<212> DNA
<213> Homo sapiens
<400> 37
gatatccaga tgaccagag cccgtctagc ctgagcgcga gcgtgggtga tcgtgtgacc 60
attacctgca gagcgagcca gtctattcgt tcttatctgg cttggtacca gcagaaacca 120
ggtaaagcac cgaaactatt aatttataag gcttctaatt tgcaaagcgg ggtcccgtcc 180
cgtttttagcg gctctggatc cggcactgat tttaccctga ccattagcag cctgcaacct 240
gaagactttg cggtttatta ttgccatcag tattctgatt ctctgttac ctttggccag 300
ggtacgaaag ttgaaattaa acgtacg 327

<210> 38
<211> 109
<212> PRT
<213> Homo sapiens
<400> 38
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Arg Ser Tyr
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Lys Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys His Gln Tyr Ser Asp Ser Pro Val
85 90 95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr

100

<210> 39
<211> 365
<212> DNA
<213> Homo sapiens

<400> 39
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattctg ctgcttgggg ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggcatgatct atcatcgtag caagtggtat 180
aacgattatg cgggtgagcgt gaaaagccgg attaccatca acccggatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgttattcct ctattgggtca tatggattat tggggccaag gcaccctggt gacgggtagc 360
tcagc 365

<210> 40
<211> 121
<212> PRT
<213> Homo sapiens

<400> 40
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30

Ser Ala Ala Trp Gly Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45

Trp Leu Gly Met Ile Tyr His Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Arg Tyr Ser Ser Ile Gly His Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 41
<211> 330
<212> DNA
<213> Homo sapiens

MSB7329PCT_Sequence_Listing_ST25.txt

<400> 41
gatatcgaac tgacccagcc gccttcagtg agcgttgcac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgattctat tggttcttat tatgctcatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgatgat ttattatgat tctaagcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccaggcttat actggtcagt ctatttctcg tgtgtttggc 300
ggcggcacga agttaaccgt tcttggccag 330

<210> 42
<211> 110
<212> PRT
<213> Homo sapiens

<400> 42
Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15
Thr Ala Arg Ile Ser Cys Ser Gly Asp Ser Ile Gly Ser Tyr Tyr Ala
20 25 30
His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Tyr Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Tyr Thr Gly Gln Ser Ile Ser
85 90 95
Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 43
<211> 353
<212> DNA
<213> Homo sapiens

<400> 43
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgcgtctg 60
agctgcgcgg cctccggatt taccttttct ccttatgtta tgtcttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagctct atctcttctt cttctagcaa tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtgggtgat 300
tcttatatgt atgatgtttg gggccaaggc accctgggtga cggttagctc agc 353

MSB7329PCT_Sequence_Listing_ST25.txt

<210> 44
<211> 117
<212> PRT
<213> Homo sapiens

<400> 44

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
20 25 30
Val Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ser Ile Ser Ser Ser Ser Ser Asn 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 Gly Asp Ser Tyr Met Tyr Asp Val Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 45
<211> 327
<212> DNA
<213> Homo sapiens

<400> 45
gatatccaga tgacccagag cccgtctagc ctgagcgcga gcgtgggtga tcgtgtgacc 60
attacctgca gagcgagcca ggatattcgt aataatctgg cttggtacca gcagaaacca 120
ggtaaagcac cgaaactatt aatttatgct gcttcttctt tgcaaagcgg ggtcccgtcc 180
cgtttttagcg gctctggatc cggcactgat ttaccctga ccattagcag cctgcaacct 240
gaagactttg cggtttatta ttgccagcag cgtaatggtt ttcctcttac ctttggccag 300
ggtacgaaag ttgaaattaa acgtacg 327

<210> 46
<211> 109
<212> PRT
<213> Homo sapiens

<400> 46

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

MSB7329PCT_Sequence_Listing_ST25.txt

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

<210> 47
<211> 365
<212> DNA
<213> Homo sapiens

<400> 47
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattctg ctgcttgggg ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggcattatct attatcgtag caagtgggat 180
aaccattatg cggtgagcgt gaaaagccgg attaccatca acccgatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgttctaatt ggtctgggta ttttgattat tggggccaag gcaccctggt gacgggtagc 360
tcagc 365

<210> 48
<211> 121
<212> PRT
<213> Homo sapiens

<400> 48
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30
Ser Ala Ala Trp Gly Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45
Trp Leu Gly Ile Ile Tyr Tyr Arg Ser Lys Trp Tyr Asn His Tyr Ala
50 55 60

MSB7329PCT_Sequence_Listing_ST25.txt

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Arg Ser Asn Trp Ser Gly Tyr Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 49
<211> 342
<212> DNA
<213> Homo sapiens

<400> 49
gatatcgtga tgaccagag cccactgagc ctgccagtga ctccgggcga gcctgcgagc 60
attagctgca gaagcagcca aagcctgctt cattctaata gctataactta tctgtcttgg 120
taccttcaaa aaccagggtca aagcccgag ctattaatct atcttggttc taatcgtgcc 180
agtgggggtcc cggatcggtt tagcggctct ggatccggca ccgattttac cctgaaaatt 240
agccgtgtgg aagctgaaga cgtgggcgtg tattattgcc agcagtatga taatgctcct 300
attacctttg gccagggtac gaaagttgaa attaaacgta cg 342

<210> 50
<211> 114
<212> PRT
<213> Homo sapiens

<400> 50

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
20 25 30

Asn Gly Tyr Thr Tyr Leu Ser Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Tyr
85 90 95

Asp Asn Ala Pro Ile Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

100

Arg Thr

<210> 51
<211> 371
<212> DNA
<213> Homo sapiens

<400> 51
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattctg ctgcttgggg ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggccttatct attatcgtag caagtgggat 180
aacgattatg cgggtgagcgt gaaaagccgg attaccatca acccgatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgttttggtg atactaatcg taatgggtact gatgtttggg gcccaaggcac cctggtgacg 360
gtagctcag c 371

<210> 52
<211> 123
<212> PRT
<213> Homo sapiens

<400> 52
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30
Ser Ala Ala Trp Gly Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45
Trp Leu Gly Leu Ile Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60
Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95
Tyr Tyr Cys Ala Arg Phe Gly Asp Thr Asn Arg Asn Gly Thr Asp Val
100 105 110
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 53

MSB7329PCT_Sequence_Listing_ST25.txt

<211> 339
<212> DNA
<213> Homo sapiens

<400> 53
gatatcgcac tgaccagcc agcttcagtg agcggctcac caggtcagag cattaccatc 60
tcgtgtacgg gtactagcag cgatattggg ggttataatt atgtgtcttg gtaccagcag 120
catcccggga aggcgccgaa acttatgatt tatgggtgta attatcgtcc ctcaggcgtg 180
agcaaccgtt ttagcggatc caaaagcggc aacaccgcga gcctgaccat tagcggcctg 240
caagcggaag acgaagcgga ttattattgc tcttctgctg ataagtttac tatgtctatt 300
gtgtttggcg gcggcacgaa gttaaccgtt cttggccag 339

<210> 54
<211> 113
<212> PRT
<213> Homo sapiens

<400> 54
Asp Ile Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly Gly Tyr
20 25 30

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45

Met Ile Tyr Gly Val Asn Tyr Arg Pro Ser Gly Val Ser Asn Arg Phe
50 55 60

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

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

Thr Met Ser Ile Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

Gln

<210> 55
<211> 306
<212> DNA
<213> Homo sapiens

<400> 55
gacctgtgcg atttccggag atagcgtgag ctctaattct gctgcttggg gttggattcg 60
ccagtctcct gggcgtggcc tcgagtggct gggcatgac tattatcgta gcaagtggta 120
taacgattat gcggtgagcg tgaaaagccg gattaccatc aacccggata cttcgaaaaa 180

MSB7329PCT_Sequence_Listing_ST25.txt

ccagtttagc ctgcaactga acagcgtgac cccggaagat acggccgtgt attattgcgc 240
gcgtgttaat cagtatactt cttctgatta ttggggccaa ggcaccctgg tgacggtttag 300
ctcagc 306

<210> 56
<211> 121
<212> PRT
<213> Homo sapiens

<400> 56

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30

Ser Ala Ala Trp Gly Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45

Trp Leu Gly Met Ile Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Arg Val Asn Gln Tyr Thr Ser Ser Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 57
<211> 327
<212> DNA
<213> Homo sapiens

<400> 57
gatatccaga tgacccagag cccgtctagc ctgagcgcga gcgtgggtga tcgtgtgacc 60
attacctgca gagcgagcca gcctatttat aattctctgt cttggtacca gcagaaacca 120
ggtaaagcac cgaaactatt aatttatggg gtttctaatt tgcaaagcgg ggtcccgtcc 180
cgtttttagcg gctctggatc cggcactgat tttaccctga ccattagcag cctgcaacct 240
gaagactttg cggtttatta ttgccttcag gttgataatc ttcctattac ctttggccag 300
ggtacgaaag ttgaaattaa acgtacg 327

<210> 58
<211> 109

MSB7329PCT_Sequence_Listing_ST25.txt

<212> PRT
<213> Homo sapiens

<400> 58
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Pro Ile Tyr Asn Ser
20 25 30
Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Gly Val Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys Leu Gln Val Asp Asn Leu Pro Ile
85 90 95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105

<210> 59
<211> 374
<212> DNA
<213> Homo sapiens

<400> 59
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattctg ctgcttggtc ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggcattgatct tttatcgtag caagtggaat 180
aacgattatg cggtgagcgt gaaaagccgg attaccatca acccggatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgtgttaatg ctaatgggta ttatgcttat gttgatcttt ggggccaagg caccctggtg 360
acggtttagct cagc 374

<210> 60
<211> 124
<212> PRT
<213> Homo sapiens

<400> 60
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30

MSB7329PCT_Sequence_Listing_ST25.txt

Ser Ala Ala Trp Ser Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45

Trp Leu Gly Met Ile Phe Tyr Arg Ser Lys Trp Asn Asn Asp Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Arg Val Asn Ala Asn Gly Tyr Tyr Ala Tyr Val Asp
100 105 110

Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 61
<211> 330
<212> DNA
<213> Homo sapiens

<400> 61
gatatcgtgc tgaccagag cccggcgacc ctgagcctgt ctccgggcga acgtgcgacc 60
ctgagctgca gagcgagcca gtctgtttct tctcagtatc tggcttggtta ccagcagaaa 120
ccagggtcaag caccgctctt attaatattat gctgcttctt ctcgtgcaac tgggggtcccg 180
gcgcgttttta gcggctcttg atccggcacg gattttaccc tgaccattag cagcctggaa 240
cctgaagact ttgcggttta ttattgccag caggattcta atcttcctgc tacctttggc 300
caggggtacga aagttgaaat taaacgtacg 330

<210> 62
<211> 110
<212> PRT
<213> Homo sapiens

<400> 62

Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gln
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu

MSB7329PCT_Sequence_Listing_ST25.txt

65707580

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Asp Ser Asn Leu Pro

859095

Ala Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr

100105110

<210> 63

<211> 351

<212> DNA

<213> Homo sapiens

<400> 63

caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgcgtctg 60

agctgcgcgg cctccggatt taccttttat aagtatgcta tgcattgggt gcgccaagcc 120

cctgggaagg gtctcgagtg ggtgagcgg atccagtatg atggtagcta tacctattat 180

gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240

ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgttattat 300

tgtaagtgtg ttgatctttg gggccaaggc accctgggtga cggttagctc a 351

<210> 64

<211> 117

<212> PRT

<213> Homo sapiens

<400> 64

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

151015

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Tyr Lys Tyr

202530

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

354045

Ser Gly Ile Gln Tyr Asp Gly Ser Tyr Thr Tyr Tyr Ala Asp Ser Val

505560

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65707580

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

859095

Ala Arg Tyr Tyr Cys Lys Cys Val Asp Leu Trp Gly Gln Gly Thr Leu

100105110

Val Thr Val Ser Ser

115

MSB7329PCT_Sequence_Listing_ST25.txt

<210> 65
<211> 327
<212> DNA
<213> Homo sapiens

<400> 65
gatatcgaac tgacccagcc gccttcagtg agcgttgcac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgataatat tcgtaagttt tatgttcatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttatgggtact aataagcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagtccttat gattctaagt ttaatactgt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 66
<211> 109
<212> PRT
<213> Homo sapiens

<400> 66
Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Asn Ile Arg Lys Phe Tyr Val
20 25 30

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

Gly Thr Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Lys Phe Asn Thr
85 90 95

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 67
<211> 359
<212> DNA
<213> Homo sapiens

<400> 67
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgcgtctg 60
agctgcgcgg cctccggatt taccttttct tcttatgcta tgaattgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcgct atcctttctg atggtagctc tacctcttat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240

MSB7329PCT_Sequence_Listing_ST25.txt

ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgttatcct 300
gattgggggtt ggtatactga tgtttggggc caaggcaccc tggtgacggt tagctcagc 359

<210> 68
<211> 119
<212> PRT
<213> Homo sapiens

<400> 68

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ala Ile Leu Ser Asp Gly Ser Ser Thr Ser 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 Tyr Pro Asp Trp Gly Trp Tyr Thr Asp Val Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 69
<211> 330
<212> DNA
<213> Homo sapiens

<400> 69

gatatcgaac tgacccagcc gccttcagtg agcgttgcac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgatgctct tcgtaagcat tatgtttatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgatgat ttatggatgat aataatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagtcttat gataagcctt atcctattct tgtgtttggc 300
ggcggcacga agttaaccgt tcttggccag 330

<210> 70
<211> 110
<212> PRT
<213> Homo sapiens

MSB7329PCT_Sequence_Listing_ST25.txt

<400> 70

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

<210> 71
<211> 356
<212> DNA
<213> Homo sapiens

<400> 71
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgctctg 60
agctgcgcgg cctccggatt taccttttct tcttatgcta tgacttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcaat atctcttatt ctggtagcaa tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaataga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtgttggg 300
tattattatg gttttgatta ttggggccaa ggcaccctgg tgacggttag ctcagc 356

<210> 72
<211> 118
<212> PRT
<213> Homo sapiens

<400> 72

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

MSB7329PCT_Sequence_Listing_ST25.txt

Ser Asn Ile Ser Tyr Ser Gly Ser Asn 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 Val Gly Tyr Tyr Tyr Gly Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 73
<211> 330
<212> DNA
<213> Homo sapiens

<400> 73
gatatcgtgc tgaccagag cccggcgacc ctgagcctgt ctccgggcca acgtgcgacc 60
ctgagctgca gagcgagcca gaatgtttct tctaattatc tggcttggtta ccagcagaaa 120
ccagggtcaag caccgctctt attaattttat gatgcttcta atcgtgcaac tgggggtcccg 180
gcgcgtttta gcggctctgg atccggcacg gattttaccc tgaccattag cagcctggaa 240
cctgaagact ttgcggttta ttattgccag cagttttatg attctcctca gacctttggc 300
cagggtacga aagttgaaat taaacgtacg 330

<210> 74
<211> 110
<212> PRT
<213> Homo sapiens

<400> 74

Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asn Val Ser Ser Asn
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Phe Tyr Asp Ser Pro

85

90

95

Gln Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

<210> 75
<211> 365
<212> DNA
<213> Homo sapiens

<400> 75
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acctgtgcga tttccggaga tagcgtgagc tctaattctg ctgcttggtc ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggctttatct attatcgtag caagtggat 180
aacgattatg cgggtgagcgt gaaaagccgg attaccatca acccgatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgtcataatc ctgatcttgg ttttgattat tggggccaag gcaccctggt gacggtagc 360
tcagc 365

<210> 76
<211> 121
<212> PRT
<213> Homo sapiens

<400> 76
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30
Ser Ala Ala Trp Ser Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45
Trp Leu Gly Phe Ile Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60
Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95
Tyr Tyr Cys Ala Arg His Asn Pro Asp Leu Gly Phe Asp Tyr Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 77

MSB7329PCT_Sequence_Listing_ST25.txt

<211> 327
<212> DNA
<213> Homo sapiens

<400> 77
gatatcgtgc tgacccagag cccggcgacc ctgagcctgt ctccgggcga acgtgcgacc 60
ctgagctgca gagcgagcca gtatgttact tcttcttattc tggcttggtta ccagcagaaa 120
ccaggtcaag caccgcgtct attaatattat gggttcttctc gtgcaactgg ggtcccggcg 180
cgtttttagcg gctctggatc cggcacggat tttaccctga ccattagcag cctggaacct 240
gaagactttg cgacttatta ttgccagcag tattcttctt ctcctattac ctttggccag 300
gggtacgaaag ttgaaattaa acgtacg 327

<210> 78
<211> 109
<212> PRT
<213> Homo sapiens

<400> 78
Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Tyr Val Thr Ser Ser
20 25 30
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45
Ile Tyr Gly Ser Ser Arg Ala Thr Gly Val Pro Ala Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Ser Ser Pro Ile
85 90 95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105

<210> 79
<211> 362
<212> DNA
<213> Homo sapiens

<400> 79
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tcttcttctg ctgcttggtc ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggcattatct attatcgtag caagtgggat 180
aacgattatg cggtgagcgt gaaaagccgg attaccatca acccggatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300

MSB7329PCT_Sequence_Listing_ST25.txt

cgtcattcta tggttggttt tgatgtttgg ggccaaggca ccctggtgac ggtagctca 360
gc 362

<210> 80
<211> 120
<212> PRT
<213> Homo sapiens

<400> 80

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

<210> 81
<211> 330
<212> DNA
<213> Homo sapiens

<400> 81

gatatcgaac tgacccagcc gccttcagtg agcgttgcac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgataatct tggacttat tatgttcatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttatggtgat aataatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagacttat gattctaata atgagtctat tgtgtttggc 300
ggcggcacga agttaaccgt tcttggccag 360

<210> 82
<211> 110
<212> PRT
<213> Homo sapiens

MSB7329PCT_Sequence_Listing_ST25.txt

<400> 82

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

<210> 83
<211> 368
<212> DNA
<213> Homo sapiens

<400> 83
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgcgtctg 60
agctgcgcgg cctccggatt tacctttaat tcttatgcta tgtcttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcaat atctcttcta attctagcaa tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtaagggt 300
gggtggtgagc atggtttttt tccttctgat atttggggcc aaggcaccct ggtgacggtt 360
agctcagc 368

<210> 84
<211> 122
<212> PRT
<213> Homo sapiens

<400> 84
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

MSB7329PCT_Sequence_Listing_ST25.txt

35 40 45
Ser Asn Ile Ser Ser Asn Ser Ser Asn 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 Lys Gly Gly Gly Glu His Gly Phe Phe Pro Ser Asp Ile Trp
100 105 110
Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 85
<211> 333
<212> DNA
<213> Homo sapiens

<400> 85
gatatcgcac tgaccagcc agcttcagtg agcggctcac caggtcagag cattaccatc 60
tcgtgtacgg gtactagcag cgatcttggt ggttttaata ctgtgtcttg gtaccagcag 120
catcccgga aggcgccgaa acttatgatt tattctgttt cttctcgtcc ctgaggcgtg 180
agcaaccgtt ttagcggatc caaaagcggc aacaccgcga gcctgaccat tagcggcctg 240
caagcggaag acgaagcgga ttattattgc cagtcttatg atcttaataa tcttgtgttt 300
ggcggcgga cgaagttaac cgttcttggc cag 333

<210> 86
<211> 111
<212> PRT
<213> Homo sapiens

<400> 86
Asp Ile Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Leu Gly Gly Phe
20 25 30
Asn Thr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45
Met Ile Tyr Ser Val Ser Ser Arg Pro Ser Gly Val Ser Asn Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

MSB7329PCT_Sequence_Listing_ST25.txt

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Leu Asn
85 90 95

Asn Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 87
<211> 353
<212> DNA
<213> Homo sapiens

<400> 87
caggtgcaat tgggtggaaag cggcggcggc ctggtgcaac cgggcggcag cctgctctg 60
agctgcgcgg cctccggatt tacctttaat tcttatgcta tgacttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcgct atcaagtctg atggtagcaa tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtaatgat 300
tctggttggg ttgatgtttg gggccaaggc accctggtga cggtagctc agc 353

<210> 88
<211> 117
<212> PRT
<213> Homo sapiens

<400> 88
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Ser Tyr
20 25 30
Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ala Ile Lys Ser Asp Gly Ser Asn 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 Asn Asp Ser Gly Trp Phe Asp Val Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 89

MSB7329PCT_Sequence_Listing_ST25.txt

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

<400> 89
gatatcgtgc tgacccagag cccggcgacc ctgagcctgt ctccgggcga acgtgcgacc 60
ctgagctgca gagcgagcca gtctgtttct tctttttatc tggcttggtta ccagcagaaa 120
ccagggtcaag caccgctgtt attaatattat gggtcttctt ctcgtgcaac tgggggtcccg 180
gcgcgttttta gcggctcttg atccggcacg gattttaccc tgaccattag cagcctggaa 240
cctgaagact ttgcgactta ttattgccag cagtatgatt ctactccttc tacctttggc 300
caggggtacga aagttgaaat taaacgtacg 330

<210> 90
<211> 110
<212> PRT
<213> Homo sapiens

<400> 90
Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Phe
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ser Ser Ser Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Ser Thr Pro
85 90 95

Ser Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

<210> 91
<211> 365
<212> DNA
<213> Homo sapiens

<400> 91
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattggtg ctgcttgggg ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggctttatct atcgtcgtag caagtgggat 180
aactcttatg cggtgagcgt gaaaagccgg attaccatca acccggatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300

MSB7329PCT_Sequence_Listing_ST25.txt

cgtcaggatg gtatgggtgg tatggattct tggggccaag gcaccctggt gacggtttagc 360
tcagc 365

<210> 92
<211> 121
<212> PRT
<213> Homo sapiens

<400> 92

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

<210> 93
<211> 327
<212> DNA
<213> Homo sapiens

<400> 93

gatatcgaac tgacccagcc gccttcagtg agcgttgcac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgataatat tggttctcgt tatgcttatt ggtaccagca gaaacccggg 120
caggcgccag ttgttgtgat ttatgatgat tctgatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg cgctgcttat actttttatg ctcgtactgt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 94
<211> 109
<212> PRT
<213> Homo sapiens

MSB7329PCT_Sequence_Listing_ST25.txt

<400> 94

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

<210> 95
<211> 359
<212> DNA
<213> Homo sapiens

<400> 95
caggtgcaat tgggtggaag cggcggcggc ctggtgcaac cgggcggcag cctgctctg 60
agctgcgcgg cctccggatt taccttttct aattattatc tttcttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcgg atctcttata atggtagctc taccaattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaataga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtatgtgg 300
cgttattctc ttggtgctga ttcttggggc caaggcaccc tggtgacggt tagctcagc 359

<210> 96
<211> 119
<212> PRT
<213> Homo sapiens

<400> 96

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

MSB7329PCT_Sequence_Listing_ST25.txt

Ser Gly Ile Ser Tyr Asn Gly Ser Ser Thr Asn 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 Met Trp Arg Tyr Ser Leu Gly Ala Asp Ser Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 97
<211> 327
<212> DNA
<213> Homo sapiens

<400> 97
gatatcgaac tgaccagcc gccttcagtg agcgttgac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgataatat tggttctaag tatgttcatt ggtaccagca gaaacccggg 120
caggcgccag ttgttgtgat ttatgaggat tctgatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagtcttgg gataagtctg agggttatgt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 98
<211> 109
<212> PRT
<213> Homo sapiens

<400> 98

Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Asn Ile Gly Ser Lys Tyr Val
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Val Val Ile Tyr
35 40 45

Glu Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Asp Lys Ser Glu Gly Tyr

85

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 99
<211> 371
<212> DNA
<213> Homo sapiens

<400> 99
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgctctg 60
agctgcgcgg cctccggatt tacctttaat aataatgcta tttcttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcgct atcaattctt cttctagctc tacctcttat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtgggtcat 300
catcgtggtc attcttgggc ttcttttatt gattattggg gccaaaggcac cctggtgacg 360
gtagctcag c 371

<210> 100
<211> 123
<212> PRT
<213> Homo sapiens

<400> 100
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Asn Asn
20 25 30
Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ala Ile Asn Ser Ser Ser Ser Thr Ser 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 Gly His His Arg Gly His Ser Trp Ala Ser Phe Ile Asp Tyr
100 105 110
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 101

MSB7329PCT_Sequence_Listing_ST25.txt

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

<400> 101
gatatcgaac tgacccagcc gccttcagtg agcgttgcac caggtcagac cgcgcgtatc 60
tcgtgtagcg gcgataatct tcgtgataag tatgcttctt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttattctaag tctgagcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ctcttcttat actcttaatc ctaatcttaa ttatgtgttt 300
ggcggcgcca cgaagttaac cgcttctggc cag 333

<210> 102
<211> 111
<212> PRT
<213> Homo sapiens

<400> 102
Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Asn Leu Arg Asp Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Ser Lys Ser Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Leu Asn Pro Asn Leu
85 90 95

Asn Tyr Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 103
<211> 347
<212> DNA
<213> Homo sapiens

<400> 103
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgcgtctg 60
agctgcgcgg cctccggatt taccttttct tcttattgga tgcattgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagctct atctcttatg attctagcaa tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgttatggt 300

MSB7329PCT_Sequence_Listing_ST25.txt

ggtatggatt attggggcca aggcaccctg gtgacgggta gctcagc 347

<210> 104
<211> 115
<212> PRT
<213> Homo sapiens

<400> 104
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ser Ile Ser Tyr Asp Ser Ser Asn 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 Tyr Gly Gly Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110
Val Ser Ser
115

<210> 105
<211> 327
<212> DNA
<213> Homo sapiens
<400> 105
gatatcgaac tgaccagcc ggcttcagtg agcgttgac caggtcagac cgcgcgtatc 60
tcgtgtagcg gcgataatct tcgttctaag tatgctcatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttatgggtgat aataatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ctctgcttat gctatggggt cttctcctgt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 106
<211> 109
<212> PRT
<213> Homo sapiens
<400> 106

MSB7329PCT_Sequence_Listing_ST25.txt

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

<210> 107
<211> 356
<212> DNA
<213> Homo sapiens

<400> 107
caggtgcaat tgggtggaag cggcggcggc ctggtgcaac cgggcggcag cctgcgtctg 60
agctgcgcgg cctccggatt taccttttct tcttatggta tgcattgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcaat atctcttata tgggtagcaa taccaattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtggtctt 300
tttcttggtt attttgatta ttggggccaa ggcaccctgg tgacggttag ctcagc 356

<210> 108
<211> 118
<212> PRT
<213> Homo sapiens

<400> 108
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Asn Ile Ser Tyr Met Gly Ser Asn Thr Asn Tyr Ala Asp Ser Val

MSB7329PCT_Sequence_Listing_ST25.txt

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 Gly Leu Phe Pro Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> 109
<211> 327
<212> DNA
<213> Homo sapiens
<400> 109
gatatccaga tgacccagag cccgtctagc ctgagcgcga gcgtgggtga tcgtgtgacc 60
attacctgca gagcgagcca gaatatcttct aattatctga attggtacca gcagaaacca 120
ggtaaagcac cgaaactatt aatttatggc acttcttctt tgcaaagcgg ggtcccgtcc 180
cgtttttagcg gctctggatc cggcactgat ttaccctga ccattagcag cctgcaacct 240
gaagactttg cggtttatta ttgccagcag tatggtaata atcctactac ctttggccag 300
ggtacgaaag ttgaaattaa acgtacg 327

<210> 110
<211> 109
<212> PRT
<213> Homo sapiens

<400> 110

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

MSB7329PCT_Sequence_Listing_ST25.txt

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105

<210> 111
<211> 377
<212> DNA
<213> Homo sapiens

<400> 111
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattggtg ctgcttgggg ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggccatatct attatcgtag caagtgggat 180
aactcttatg cgggtgagcgt gaaaagccgg attaccatca acccggatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgttgggggtg gtattcatga tggtgatatt tattttgatt attggggcca aggcaccctg 360
gtgacggtta gctcagc 377

<210> 112
<211> 125
<212> PRT
<213> Homo sapiens

<400> 112
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30
Gly Ala Ala Trp Gly Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45
Trp Leu Gly His Ile Tyr Tyr Arg Ser Lys Trp Tyr Asn Ser Tyr Ala
50 55 60
Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95
Tyr Tyr Cys Ala Arg Trp Gly Gly Ile His Asp Gly Asp Ile Tyr Phe
100 105 110
Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 113
<211> 327
<212> DNA

MSB7329PCT_Sequence_Listing_ST25.txt

<213> Homo sapiens
<400> 113
gatatccaga tgacccagag cccgtctagc ctgagcgcca gcggtgggtga tcgtgtgacc 60
attacctgca gagcgagcca gtctattact aattatctga attggtacca gcagaaacca 120
ggtaaagcac cgaaactatt aatttatgat gtttctaatt tgcaaagcgg ggtcccggtcc 180
cgtttttagcg gctctggatc cggcactgat tttaccctga ccattagcag cctgcaacct 240
gaagactttg cggtttatta ttgccagcag tattctgggt atcctcttac ctttggccag 300
ggtacgaaag ttgaaattaa acgtacg 327

<210> 114
<211> 109
<212> PRT
<213> Homo sapiens

<400> 114
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Thr Asn Tyr
20 25 30
Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Asp Val Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ser Gly Tyr Pro Leu
85 90 95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105

<210> 115
<211> 362
<212> DNA
<213> Homo sapiens

<400> 115
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tcttcttctg ctgcttggtc ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggcattgatct attatcgtag caagtggat 180
aaccattatg cggtagagcgt gaaaagccgg attaccatca acccggtac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgtggtgggt ctggtgttat ggatgtttgg ggccaaggca ccctggtgac ggtagctca 360

MSB7329PCT_Sequence_Listing_ST25.txt

gc 362

<210> 116
<211> 120
<212> PRT
<213> Homo sapiens

<400> 116
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Ser
20 25 30
Ser Ala Ala Trp Ser Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45
Trp Leu Gly Met Ile Tyr Tyr Arg Ser Lys Trp Tyr Asn His Tyr Ala
50 55 60
Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95
Tyr Tyr Cys Ala Arg Gly Gly Ser Gly Val Met Asp Val Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 117
<211> 327
<212> DNA
<213> Homo sapiens
<400> 117
gatatccaga tgacccagag cccgtctagc ctgagcgcga gcgtgggtga tcgtgtgacc 60
attacctgca gagcgagcca gtctattaat ccttatctga attggtacca gcagaaacca 120
ggtaaagcac cgaaactatt aatttatgct gcttctaatt tgcaaagcgg ggtcccgtcc 180
cgtttttagcg gctctggatc cggcactgat tttaccctga ccattagcag cctgcaacct 240
gaagactttg cggtttatta ttgccagcag cttgataatc gttctattac ctttggccag 300
ggtacgaaag ttgaaattaa acgtacg 327

<210> 118
<211> 109
<212> PRT
<213> Homo sapiens

<400> 118

MSB7329PCT_Sequence_Listing_ST25.txt

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

<210> 119
<211> 371
<212> DNA
<213> Homo sapiens

<400> 119
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattctg ctgcttgggg ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggcgttatct attatcgtag caagtgggat 180
aacgattatg cgggtgagcgt gaaaagccgg attaccatca acccggatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgtgctcgtg ctaagaagtc tgggtggtttt gattattggg gccaaaggcac cctgggtgacg 360
gtagctcag c 371

<210> 120
<211> 123
<212> PRT
<213> Homo sapiens

<400> 120
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30
Ser Ala Ala Trp Gly Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45

MSB7329PCT_Sequence_Listing_ST25.txt

Trp Leu Gly Val Ile Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Arg Ala Arg Ala Lys Lys Ser Gly Gly Phe Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 121
<211> 330
<212> DNA
<213> Homo sapiens

<400> 121
gatatcgaac tgaccagcc gccttcagtg agcgttgac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgattctct tggttctaag tttgctcatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgatgat ttatgatgat tctaatacgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ctctacttat acttctcggt ctcattctta tgtgtttggc 300
ggcggcacga agttaaccgt tcttggccag 330

<210> 122
<211> 110
<212> PRT
<213> Homo sapiens

<400> 122

Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Ser Leu Gly Ser Lys Phe Ala
20 25 30

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

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Ser Thr Tyr Thr Ser Arg Ser His Ser

Tyr Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 123
<211> 350
<212> DNA
<213> Homo sapiens

<400> 123
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgctctg 60
agctgcgcgg cctccggatt taccttttct tcttatgctt cttgggtgcg ccaagcccct 120
gggaagggtc tcgagtgggt gagcgggtatc tctggtgatg gtagcaatac ccattatgcg 180
gatagcgtga aaggccgttt taccatttca cgtgataatt cgaaaaacac cctgtatctg 240
caaatgaaca gcctgcgtgc ggaagatacg gccgtgtatt attgcgcgcg ttatgataat 300
ttttattttg atgtttgggg ccaaggcacc ctggtgacgg ttagctcagc 350

<210> 124
<211> 116
<212> PRT
<213> Homo sapiens

<400> 124
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Ala Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
35 40 45
Gly Ile Ser Gly Asp Gly Ser Asn Thr His Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95
Arg Tyr Asp Asn Phe Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu Val
100 105 110
Thr Val Ser Ser
115

<210> 125
<211> 327
<212> DNA

MSB7329PCT_Sequence_Listing_ST25.txt

<213> Homo sapiens
<400> 125
gatatcgaac tgacccagcc gccttcagtg agcgttgcac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgataatat tggttcttat tatgcttatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttatgatgat tctaatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagtcttat gattctactg gtcttcttgt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 126
<211> 109
<212> PRT
<213> Homo sapiens

<400> 126
Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15
Thr Ala Arg Ile Ser Cys Ser Gly Asp Asn Ile Gly Ser Tyr Tyr Ala
20 25 30
Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Thr Gly Leu Leu
85 90 95
Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 127
<211> 377
<212> DNA
<213> Homo sapiens

<400> 127
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgctctg 60
agctgcgcgg cctccggatt taccttttct aattatgcta tgacttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcgtt atctcttctg ttggtagcaa tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatac acagcctgcg tgcggaagat acggccgtgt attattgcdc gcgtcctact 300
aaggctgggtc gtacttgggtg gtggggctct tatatggatg tttggggcca aggcaccctg 360

MSB7329PCT_Sequence_Listing_ST25.txt

gtgacggtta gctcagc 377

<210> 128
<211> 125
<212> PRT
<213> Homo sapiens

<400> 128

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
20 25 30

Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Val Ile Ser Ser Val Gly Ser Asn 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 Pro Thr Lys Ala Gly Arg Thr Trp Trp Trp Gly Pro Tyr Met
100 105 110

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 129
<211> 312
<212> DNA
<213> Homo sapiens

<400> 129

gatatcgaac tgaccagcc gccttcagtg agcgttgacac caggtcagac cgcgcgtatc 60
tcgtgtagcg gcgataatat tggttcttat tttgcttctt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttatgatgat tctaatacgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg cgagggttct aatgtgtttg gcggcggcac gaagttaacc 300
gttcttggcc ag 312

<210> 130
<211> 104
<212> PRT
<213> Homo sapiens

<400> 130

MSB7329PCT_Sequence_Listing_ST25.txt

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

<210> 131
<211> 368
<212> DNA
<213> Homo sapiens

<400> 131
caggtgcaat tggttcagag cggcgcgga gtgaaaaaac cgggcgaaag cctgaaaatt 60
agctgcaaag gttccggata ttcctttact gattattgga ttggttggtt gcgccagatg 120
cctgggaagg gtctcgagt gatgggcatt atccagccgt ctgatagcga taccaattat 180
tctccgagct ttcagggcca ggtgaccatt agcgcggaata aaagcattag caccgcgtat 240
cttcaatgga gcagcctgaa agcgagcgat acggccatgt attattgcgc gcgttttatg 300
tggtggggta agtatgattc tggttttgat gtttgggggc aaggcaccct ggtgacggtt 360
agctcagc 368

<210> 132
<211> 122
<212> PRT
<213> Homo sapiens

<400> 132
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30
Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

MSB7329PCT_Sequence_Listing_ST25.txt

Gly Ile Ile Gln Pro Ser Asp Ser Asp Thr Asn Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Phe Met Trp Trp Gly Lys Tyr Asp Ser Gly Phe Asp Val Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 133
<211> 327
<212> DNA
<213> Homo sapiens

<400> 133
gatatcgaac tgaccagcc gccttcagtg agcgttgac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgataatct tccttctaag tctgtttatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgatgat ttatggtgat aataatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagtcttgg acttctcgtc ctatggttgt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 134
<211> 109
<212> PRT
<213> Homo sapiens

<400> 134

Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Asn Leu Pro Ser Lys Ser Val
20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gly Asp Asn Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Thr Ser Arg Pro Met Val

85

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 135
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (156)..(156)
<223> n is a, c, g, or t

<400> 135
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cctgggaagg gtctcgagtg ggtgagcggc atctcntatt cttctagctt tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatac acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtgctctt 300
gggtggtggtg ttgattattg gggccaaggc accctggtga cggtagctc agc 353

<210> 136
<211> 117
<212> PRT
<213> Homo sapiens

<400> 136
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Gly Ile Ser Tyr Ser Ser Ser Phe 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 Ala Leu Gly Gly Gly Val Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser

MSB7329PCT_Sequence_Listing_ST25.txt

115

<210> 137
<211> 327
<212> DNA
<213> Homo sapiens

<400> 137
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attacctgca gagcgagcca gggatattct tcttatctgc attggtacca gcagaaacca 120
ggtaaagcac cgaaactatt aatttatggg gcttctactt tgcaaagcgg ggtcccgctc 180
cgtttttagcg gctctggatc cggcactgat tttaccctga ccattagcag cctgcaacct 240
gaagactttg cgacttatta ttgccagcag cagaatgggt atccttttac ctttggccag 300
ggtacgaaag ttgaaattaa acgtacg 327

<210> 138
<211> 109
<212> PRT
<213> Homo sapiens

<400> 138
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr
20 25 30

Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Gly Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gln Asn Gly Tyr Pro Phe
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105

<210> 139
<211> 374
<212> DNA
<213> Homo sapiens

<400> 139
caggtgcaat tgcaacagtc tgggtccgggc ctgggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattctg gtggttgggg ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggccttatct attatcgtag caagtgggat 180

MSB7329PCT_Sequence_Listing_ST25.txt

aacgcttatg cggtgagcgt gaaaagccgg attaccatca acccggtatac ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgttatcttg gttctaattt ttatgtttat tctgatgttt ggggccaagg caccctggtg 360
acggtttagct cagc 374

<210> 140
<211> 124
<212> PRT
<213> Homo sapiens

<400> 140

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

<210> 141
<211> 327
<212> DNA
<213> Homo sapiens

<400> 141

gatatccaga tgaccagag cccgtctagc ctgagcgcca gcgtgggtga tcgtgtgacc 60
attacctgca gagcgagcca gaatattcat tctcatctga attggtacca gcagaaacca 120
ggtaaagcac cgaaactatt aatttatgat gcttcttctt tgcaaagcgg ggtcccgtcc 180
cgtttttagcg gctctggatc cggcactgat ttaccctga ccattagcag cctgcaacct 240
gaagactttg cggtttatta ttgccagcag tattatgatt atcctcttac ctttggccag 300
ggtacgaaag ttgaaattaa acgtacg 327

MSB7329PCT_Sequence_Listing_ST25.txt

<210> 142
<211> 109
<212> PRT
<213> Homo sapiens

<400> 142

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

<210> 143
<211> 353
<212> DNA
<213> Homo sapiens

<400> 143

caggtgcaat tgggtggaaag cggcggcggc ctggtgcaac cgggcggcag cctgcgctctg 60
agctgcgcgg cctccggatt taccttttct tcttattcta tgtcttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagctct atctcttctt cttctagcaa tacctattat 180
ggggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtatgcat 300
tataagggtg tggtatatttg gggccaaggc accctggtga cggttagctc agc 353

<210> 144
<211> 117
<212> PRT
<213> Homo sapiens

<400> 144

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

MSB7329PCT_Sequence_Listing_ST25.txt

Ser Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Ser Ser Ser Ser Ser Asn Thr Tyr Tyr Gly 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 Met His Tyr Lys Gly Met Asp Ile Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 145
<211> 324
<212> DNA
<213> Homo sapiens

<400> 145
gatatcgaac tgaccagcc gccttcagtg agcgttcac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgataagct tggtaagtat tatgcttatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttatggtgat tctaagcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ctcttctgct gcttttggtt ctactgtgtt tggcggcggc 300
acgaagttaa ccgttcttgg ccag 324

<210> 146
<211> 108
<212> PRT
<213> Homo sapiens

<400> 146

Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Lys Leu Gly Lys Tyr Tyr Ala
20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gly Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
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MSB7329PCT_Sequence_Listing_ST25.txt

65707580

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Ala Ala Phe Gly Ser Thr Val

859095

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln

100105

<210> 147

<211> 350

<212> DNA

<213> Homo sapiens

<400> 147

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agctgcgcgg cctccggatt tacctttaat tcttattata tgtcttgggt gcgccaagcc 120

cctgggaagg gtctcgagtg ggtgagcaat atctcttctt ctggtagcaa taccaattat 180

gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240

ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtgttcat 300

tatggttttg atttttgggg ccaaggcacc ctggtgacgg ttagctcagc 350

<210> 148

<211> 116

<212> PRT

<213> Homo sapiens

<400> 148

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

151015

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Ser Tyr

202530

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

354045

Ser Asn Ile Ser Ser Ser Gly Ser Asn Thr Asn Tyr Ala Asp Ser Val

505560

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65707580

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

859095

Ala Arg Val His Tyr Gly Phe Asp Phe Trp Gly Gln Gly Thr Leu Val

100105110

Thr Val Ser Ser

115

MSB7329PCT_Sequence_Listing_ST25.txt

<210> 149
<211> 327
<212> DNA
<213> Homo sapiens

<400> 149
gatatcgaac tgacccagcc gccttcagtg agcgttgcac caggtcagac cgcgcgatc 60
tcgtgtagcg gcgatgctct tggttctaag tttgctcatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttatgatgat tctgagcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccaggcttat gattctggtc ttctttatgt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 150
<211> 109
<212> PRT
<213> Homo sapiens

<400> 150
Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Ala Leu Gly Ser Lys Phe Ala
20 25 30

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

Asp Asp Ser Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

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

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 151
<211> 359
<212> DNA
<213> Homo sapiens

<400> 151
caggtgcaat tgggtggaaag cggcggcggc ctggtgcaac cgggcggcag cctgcgtctg 60
agctgcgcgg cctccggatt tacctttcgt aattatgcta tgaattgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcgtt atctctggtt cttctagcta tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240

MSB7329PCT_Sequence_Listing_ST25.txt

ctgcaaata acagcctgcg tgcggaagat acggccgtgt attattgcmc gcgtgctgat 300
cttccttata tggtttttga ttattggggc caaggcaccc tggtgacggt tagctcagc 359

<210> 152
<211> 119
<212> PRT
<213> Homo sapiens

<400> 152
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn Tyr
20 25 30
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Val Ile Ser Gly Ser Ser Ser Tyr 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 Ala Asp Leu Pro Tyr Met Val Phe Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 153
<211> 324
<212> DNA
<213> Homo sapiens

<400> 153
gatatacgaac tgacccagcc gccttcagtgc agcgttgccac caggtcagac cgcgcgtatc 60
tcgtgtagcg gcgatgctct tggtaagtat tatgcttctt ggtaccagca gaaacccggg 120
caggcgccag ttcttgatgat ttatggatgat aataagcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagtcttat actactcgtt ctcttggtgtt tggcggcggc 300
acgaagttaa ccgttcttgg ccag 324

<210> 154
<211> 108
<212> PRT
<213> Homo sapiens

MSB7329PCT_Sequence_Listing_ST25.txt

<400> 154

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

<210> 155
<211> 353
<212> DNA
<213> Homo sapiens

<400> 155
caggtgcaat tgggtggaag cggcggcggc ctggtgcaac cgggcggcag cctgcgctctg 60
agctgcgcgg cctccggatt taccttttct tcttatggta tgtcttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcctt atctctggtg tttctagctc tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaataga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgttcttat 300
cttggttatt ttgatgtttg gggccaaggc accctggtga cggttagctc agc 353

<210> 156
<211> 117
<212> PRT
<213> Homo sapiens

<400> 156

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

MSB7329PCT_Sequence_Listing_ST25.txt

Ser Leu Ile Ser Gly Val Ser Ser 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 Ser Tyr Leu Gly Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 157
<211> 342
<212> DNA
<213> Homo sapiens

<400> 157
gatatcgtga tgaccagag ccactgagc ctgccagtga ctccgggcga gcctgcgagc 60
attagctgca gaagcagcca aagcctgggt ttttctgatg gcaataactta tctgaattgg 120
taccttcaaa aaccagggtca aagcccgag ctattaattt ataagggttc taatcgtgcc 180
agtgggggtcc cggatcgttt tagcggctct ggatccggca ccgattttac cctgaaaatt 240
agccgtgtgg aagctgaaga cgtgggcgtg tattattgcc agcagtatga ttcttatcct 300
cttacctttg gccagggtac gaaagttgaa attaaacgta cg 342

<210> 158
<211> 114
<212> PRT
<213> Homo sapiens

<400> 158
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val Phe Ser
20 25 30

Asp Gly Asn Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Gln Leu Leu Ile Tyr Lys Gly Ser Asn Arg Ala Ser Gly Val Pro
50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Tyr

Asp Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg Thr

<210> 159
<211> 371
<212> DNA
<213> Homo sapiens

<400> 159
caggtgcaat tgcaacagtc tgggtccgggc ctggtgaaac cgagccaaac cctgagcctg 60
acctgtgcga tttccggaga tagcgtgagc tctaattctg ctgcttggtc ttggattcgc 120
cagtctcctg ggcgtggcct cgagtggctg ggcattatct ataagcgtag caagtgggat 180
aacgattatg cgggtgagcgt gaaaagccgg attaccatca acccggtataa ttcgaaaaac 240
cagtttagcc tgcaactgaa cagcgtgacc ccggaagata cggccgtgta ttattgcgcg 300
cgttggcatt ctgataagca ttgggggtttt gattattggg gccaaaggcac cctggtgacg 360
gtagctcag c 371

<210> 160
<211> 123
<212> PRT
<213> Homo sapiens

<400> 160

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30

Ser Ala Ala Trp Ser Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
35 40 45

Trp Leu Gly Ile Ile Tyr Lys Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Arg Trp His Ser Asp Lys His Trp Gly Phe Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
Page 67

MSB7329PCT_Sequence_Listing_ST25.txt
120

115

<210> 161
<211> 327
<212> DNA
<213> Homo sapiens

<400> 161
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tcgtgtagcg gcgatgctct tggttctaag tatgtttctt ggtaccagca gaaacccggg 120
caggcgccag ttcttgatgat ttatggtgat aataagcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagtcttat acttattctc ttaatcagggt gtttggcggc 300
ggcacgaagt taaccgttct tggccag 327

<210> 162
<211> 109
<212> PRT
<213> Homo sapiens

<400> 162
Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Ser Cys Ser Gly Asp Ala Leu Gly Ser Lys Tyr Val
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gly Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

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

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105

<210> 163
<211> 356
<212> DNA
<213> Homo sapiens

<400> 163
caggtgcaat tgggtgaaag cggcggcggc ctggtgcaac cgggcggcag cctgcgtctg 60
agctgcgcgg cctccggatt tacctttaat gattatgcta tgtcttgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcctt atcgagtctg tttctagctc tacctattat 180

MSB7329PCT_Sequence_Listing_ST25.txt

gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaataga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtactatt 300
gggtgttcttt gggatgatgt ttggggccaa ggcaccctgg tgacggttag ctcagc 356

<210> 164
<211> 118
<212> PRT
<213> Homo sapiens

<400> 164

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Asp Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Leu Ile Glu Ser Val Ser Ser 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 Thr Ile Gly Val Leu Trp Asp Asp Val Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 165
<211> 324
<212> DNA
<213> Homo sapiens

<400> 165
gatatcgaac tgaccagacc gccttcagtg agcggtgcac caggtcagac cgcgcgtatc 60
tcgtgtagcg gcgataagct tggttctaag tctgttcatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgtgat ttatcgtgat actgatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ccagacttat gattatattc ttaatgtgtt tggcggcggc 300
acgaagttaa ccgttcttgg ccag 324

<210> 166
<211> 108

MSB7329PCT_Sequence_Listing_ST25.txt

<212> PRT
<213> Homo sapiens

<400> 166

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

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<212> DNA
<213> Homo sapiens

<400> 167
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agctgcgcgg cctccggatt taccttttct acttatgcta tgcattgggt gcgccaagcc 120
cctgggaagg gtctcgagtg ggtgagcact atctctgggt atggtagctt tacctattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtaatggt 300
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<210> 168
<211> 119
<212> PRT
<213> Homo sapiens

<400> 168

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
20 25 30
Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

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35

40

45

Ser Thr Ile Ser Gly Tyr Gly Ser Phe 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 Asn Gly Arg Lys Tyr Gly Gln Met Asp Asn Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 169
<211> 333
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<400> 169
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tcgtgtagcg gcgattctat tggtagaag tatgttcatt ggtaccagca gaaacccggg 120
caggcgccag ttcttgatggtat aataatcgtc cctcaggcat cccggaacgc 180
tttagcggat ccaacagcgg caacaccgcg accctgacca ttagcggcac tcaggcggaa 240
gacgaagcgg attattattg ctctactgct gattctgtta ttacttataa gaatgtgttt 300
ggcggcggca cgaagttaac cggtcttggc cag 333

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<400> 170
Asp Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15
Thr Ala Arg Ile Ser Cys Ser Gly Asp Ser Ile Gly Lys Lys Tyr Val
20 25 30
His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Gly Asp Asn Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Glu
65 70 75 80

MSB7329PCT_Sequence_Listing_ST25.txt

Asp Glu Ala Asp Tyr Tyr Cys Ser Thr Ala Asp Ser Val Ile Thr Tyr
85 90 95

Lys Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 171
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cctgggaagg gtctcgagtg ggtgagcgtt atcgagtatt ctggtagcaa gaccaattat 180
gcggatagcg tgaaaggccg ttttaccatt tcacgtgata attcgaaaaa caccctgtat 240
ctgcaaatga acagcctgcg tgcggaagat acggccgtgt attattgcgc gcgtggtgat 300
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gc 362

<210> 172
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<400> 172
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1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp His
20 25 30
Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Val Ile Glu Tyr Ser Gly Ser Lys Thr Asn 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 Gly Asp Tyr Tyr Pro Tyr Leu Val Phe Ala Ile Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

MSB7329PCT_Sequence_Listing_ST25.txt

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<210> 174
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<400> 174
Ser Gly Asp Asn Ile Pro Glu Lys Tyr Val His
1 5 10

<210> 175
<211> 11
<212> PRT
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<400> 175
Ser Gly Asp Lys Ile Gly Ser Lys Tyr Val Tyr
1 5 10

<210> 176
<211> 11
<212> PRT
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<400> 176
Ser Gly Asp Asn Leu Arg Asn Tyr Tyr Ala His
1 5 10

<210> 177
<211> 11
<212> PRT
<213> Homo sapiens

<400> 177
Ser Gly Asp Lys Leu Gly Lys Lys Tyr Val His
1 5 10

<210> 178
<211> 11
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<400> 178
Ser Gly Asp Asn Leu Gly Asn Lys Tyr Ala His
1 5 10

<210> 179

MSB7329PCT_Sequence_Listing_ST25.txt

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<400> 179
Arg Ala Ser Gln Asn Ile Gly Ser Asn Tyr Leu Ala
1 5 10

<210> 180
<211> 11
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<400> 180
Ser Gly Asp Ala Leu Gly Thr Tyr Tyr Ala Tyr
1 5 10

<210> 181
<211> 11
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<400> 181
Ser Gly Asp Asn Leu Arg Gly Tyr Tyr Ala Ser
1 5 10

<210> 182
<211> 11
<212> PRT
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<400> 182
Arg Ala Ser Gln Ser Ile Arg Ser Tyr Leu Ala
1 5 10

<210> 183
<211> 11
<212> PRT
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<400> 183
Ser Gly Asp Ser Ile Gly Ser Tyr Tyr Ala His
1 5 10

<210> 184
<211> 11
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<400> 184
Arg Ala Ser Gln Asp Ile Arg Asn Asn Leu Ala
1 5 10

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MSB7329PCT_Sequence_Listing_ST25.txt

<213> Homo sapiens

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Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Thr Tyr Leu Ser
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<210> 186

<211> 14

<212> PRT

<213> Homo sapiens

<400> 186

Thr Gly Thr Ser Ser Asp Ile Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 187

<211> 11

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<213> Homo sapiens

<400> 187

Arg Ala Ser Gln Pro Ile Tyr Asn Ser Leu Ser
1 5 10

<210> 188

<211> 12

<212> PRT

<213> Homo sapiens

<400> 188

Arg Ala Ser Gln Ser Val Ser Ser Gln Tyr Leu Ala
1 5 10

<210> 189

<211> 11

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<213> Homo sapiens

<400> 189

Ser Gly Asp Asn Ile Arg Lys Phe Tyr Val His
1 5 10

<210> 190

<211> 11

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<213> Homo sapiens

<400> 190

Ser Gly Asp Ala Leu Arg Lys His Tyr Val Tyr
1 5 10

<210> 191

<211> 12

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MSB7329PCT_Sequence_Listing_ST25.txt

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Arg Ala Ser Gln Asn Val Ser Ser Asn Tyr Leu Ala
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<211> 12

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<213> Homo sapiens

<400> 192

Arg Ala Ser Gln Tyr Val Thr Ser Ser Tyr Leu Ala
1 5 10

<210> 193

<211> 11

<212> PRT

<213> Homo sapiens

<400> 193

Ser Gly Asp Asn Leu Gly Thr Tyr Tyr Val His
1 5 10

<210> 194

<211> 14

<212> PRT

<213> Homo sapiens

<400> 194

Thr Gly Thr Ser Ser Asp Leu Gly Gly Phe Asn Thr Val Ser
1 5 10

<210> 195

<211> 12

<212> PRT

<213> Homo sapiens

<400> 195

Arg Ala Ser Gln Ser Val Ser Ser Phe Tyr Leu Ala
1 5 10

<210> 196

<211> 11

<212> PRT

<213> Homo sapiens

<400> 196

Ser Gly Asp Asn Ile Gly Ser Arg Tyr Ala Tyr
1 5 10

<210> 197

<211> 11

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<213> Homo sapiens

<400> 197

MSB7329PCT_Sequence_Listing_ST25.txt

Ser Gly Asp Asn Ile Gly Ser Lys Tyr Val His
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<210> 198
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<400> 198

Ser Gly Asp Asn Leu Arg Asp Lys Tyr Ala Ser
1 5 10

<210> 199
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<400> 199

Ser Gly Asp Asn Leu Arg Ser Lys Tyr Ala His
1 5 10

<210> 200
<211> 11
<212> PRT
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<400> 200

Arg Ala Ser Gln Asn Ile Ser Asn Tyr Leu Asn
1 5 10

<210> 201
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<400> 201

Arg Ala Ser Gln Ser Ile Thr Asn Tyr Leu Asn
1 5 10

<210> 202
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<212> PRT
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<400> 202

Arg Ala Ser Gln Ser Ile Asn Pro Tyr Leu Asn
1 5 10

<210> 203
<211> 11
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<400> 203

Ser Gly Asp Ser Leu Gly Ser Lys Phe Ala His
1 5 10

MSB7329PCT_Sequence_Listing_ST25.txt

<210> 204
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<400> 204
Ser Gly Asp Asn Ile Gly Ser Tyr Tyr Ala Tyr
1 5 10

<210> 205
<211> 11
<212> PRT
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<400> 205
Ser Gly Asp Asn Ile Gly Ser Tyr Phe Ala Ser
1 5 10

<210> 206
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<400> 206
Ser Gly Asp Asn Leu Pro Ser Lys Ser Val Tyr
1 5 10

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<400> 207
Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu His
1 5 10

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<211> 11
<212> PRT
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<400> 208
Arg Ala Ser Gln Asn Ile His Ser His Leu Asn
1 5 10

<210> 209
<211> 11
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Ser Gly Asp Lys Leu Gly Lys Tyr Tyr Ala Tyr
1 5 10

MSB7329PCT_Sequence_Listing_ST25.txt

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Ser Gly Asp Ala Leu Gly Ser Lys Phe Ala His
1 5 10

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Ser Gly Asp Ala Leu Gly Lys Tyr Tyr Ala Ser
1 5 10

<210> 212
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<400> 212

Arg Ser Ser Gln Ser Leu Val Phe Ser Asp Gly Asn Thr Tyr Leu Asn
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<400> 213

Ser Gly Asp Ala Leu Gly Ser Lys Tyr Val Ser
1 5 10

<210> 214
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<400> 214

Ser Gly Asp Lys Leu Gly Ser Lys Ser Val His
1 5 10

<210> 215
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<400> 215

Ser Gly Asp Ser Ile Gly Lys Lys Tyr Val His
1 5 10

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MSB7329PCT_Sequence_Listing_ST25.txt

<212> PRT
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<400> 216

Gly Asp Ser Lys Arg Pro Ser
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<210> 217
<211> 7
<212> PRT
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<400> 217

Gly Asp Asn Asn Arg Pro Ser
1 5

<210> 218
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<400> 218

Asp Ser Asn Arg Pro Ser
1 5

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<400> 219

Tyr Asp Asn Asn Arg Pro Ser
1 5

<210> 220
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<400> 220

Gly Asp Asp Lys Arg Pro Ser
1 5

<210> 221
<211> 7
<212> PRT
<213> Homo sapiens

<400> 221

Tyr Asp Asn Lys Arg Pro Ser
1 5

<210> 222
<211> 7
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MSB7329PCT_Sequence_Listing_ST25.txt

<400> 222
Gly Ala Ser Thr Arg Ala Thr
1 5

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<400> 223
Gly Asp Met Asn Arg Pro Ser
1 5

<210> 224
<211> 7
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<400> 224
Glu Asp Asn Asn Arg Pro Ser
1 5

<210> 225
<211> 7
<212> PRT
<213> Homo sapiens

<400> 225
Lys Ala Ser Asn Leu Gln Ser
1 5

<210> 226
<211> 7
<212> PRT
<213> Homo sapiens

<400> 226
Tyr Asp Ser Lys Arg Pro Ser
1 5

<210> 227
<211> 7
<212> PRT
<213> Homo sapiens

<400> 227
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 228
<211> 7
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<400> 228

MSB7329PCT_Sequence_Listing_ST25.txt

Leu Gly Ser Asn Arg Ala Ser
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<400> 229

Gly Val Asn Tyr Arg Pro Ser
1 5

<210> 230
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<400> 230

Gly Val Ser Asn Leu Gln Ser
1 5

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<400> 231

Ala Ala Ser Ser Arg Ala Thr
1 5

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<400> 232

Gly Thr Asn Lys Arg Pro Ser
1 5

<210> 233
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Gly Asp Asn Asn Arg Pro Ser
1 5

<210> 234
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Asp Ala Ser Asn Arg Ala Thr

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Gly Ser Ser Arg Ala Thr
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Gly Asp Asn Asn Arg Pro Ser
1 5

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Ser Val Ser Ser Arg Pro Ser
1 5

<210> 238
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Gly Ser Ser Ser Arg Ala Thr
1 5

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Asp Asp Ser Asp Arg Pro Ser
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<210> 240
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Glu Asp Ser Asp Arg Pro Ser
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MSB7329PCT_Sequence_Listing_ST25.txt

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Ser Lys Ser Glu Arg Pro Ser
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<400> 242

Gly Asp Asn Asn Arg Pro Ser
1 5

<210> 243
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Gly Thr Ser Ser Leu Gln Ser
1 5

<210> 244
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<400> 244

Asp Val Ser Asn Leu Gln Ser
1 5

<210> 245
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<400> 245

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 246
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<400> 246

Asp Asp Ser Asn Arg Pro Ser
1 5

<210> 247

MSB7329PCT_Sequence_Listing_ST25.txt

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<400> 247

Asp Asp Ser Asn Arg Pro Ser
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Asp Asp Ser Asn Arg Pro Ser
1 5

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Gly Asp Asn Asn Arg Pro Ser
1 5

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Gly Ala Ser Thr Leu Gln Ser
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Asp Ala Ser Ser Leu Gln Ser
1 5

<210> 252
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<213> Homo sapiens

<400> 252

Gly Asp Ser Lys Arg Pro Ser
1 5

<210> 253
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MSB7329PCT_Sequence_Listing_ST25.txt

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Gly Asp Asn Lys Arg Pro Ser
1 5

<210> 255
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Lys Gly Ser Asn Arg Ala Ser
1 5

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Gly Asp Asn Lys Arg Pro Ser
1 5

<210> 257
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Arg Asp Thr Asp Arg Pro Ser
1 5

<210> 258
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Gly Asp Asn Asn Arg Pro Ser
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MSB7329PCT_Sequence_Listing_ST25.txt

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<210> 260

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<400> 260

Gln Ser Phe Asp Ala Gly Ser Tyr Phe Val
1 5 10

<210> 261

<211> 11

<212> PRT

<213> Homo sapiens

<400> 261

Ala Ser Tyr Asp Ser Ile Tyr Ser Tyr Trp Val
1 5 10

<210> 262

<211> 9

<212> PRT

<213> Homo sapiens

<400> 262

Gln Ser Trp Asp Asp Gly Val Pro Val
1 5

<210> 263

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<400> 263

Gln Ala Trp Gly Ser Ile Ser Arg Phe Val
1 5 10

<210> 264

<211> 11

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<213> Homo sapiens

<400> 264

Gln Ser Trp Thr Pro Gly Ser Asn Thr Met Val
1 5 10

<210> 265

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<400> 265

Gln Gln Leu Asn Ser Ile Pro Val Thr
1 5

<210> 266
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<400> 266

Gln Ser Tyr Asp Ala Gly Val Lys Pro Ala Val
1 5 10

<210> 267
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<400> 267

Gln Ser Trp Asp Ser Pro Tyr Val His Val
1 5 10

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<400> 268

His Gln Tyr Ser Asp Ser Pro Val Thr
1 5

<210> 269
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<400> 269

Gln Ala Tyr Thr Gly Gln Ser Ile Ser Arg
1 5 10

<210> 270
<211> 9
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<400> 270

Gln Gln Arg Asn Gly Phe Pro Leu Thr
1 5

<210> 271
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Gln Gln Tyr Asp Asn Ala Pro Ile Thr
1 5

MSB7329PCT_Sequence_Listing_ST25.txt

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Ser Ser Ala Asp Lys Phe Thr Met Ser Ile Val
1 5 10

<210> 273
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<400> 273
Leu Gln Val Asp Asn Leu Pro Ile Thr
1 5

<210> 274
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<400> 274
Gln Gln Asp Ser Asn Leu Pro Ala Thr
1 5

<210> 275
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<400> 275
Gln Ser Tyr Asp Ser Lys Phe Asn Thr Val
1 5 10

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Gln Ser Tyr Asp Lys Pro Tyr Pro Ile Leu Val
1 5 10

<210> 277
<211> 9
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Gln Gln Phe Tyr Asp Ser Pro Gln Thr
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MSB7329PCT_Sequence_Listing_ST25.txt

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Gln Gln Tyr Ser Ser Ser Pro Ile Thr
1 5

<210> 279
<211> 11
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<400> 279

Gln Thr Tyr Asp Ser Asn Asn Glu Ser Ile Val
1 5 10

<210> 280
<211> 9
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<400> 280

Gln Ser Tyr Asp Leu Asn Asn Leu Val
1 5

<210> 281
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<400> 281

Gln Gln Tyr Asp Ser Thr Pro Ser Thr
1 5

<210> 282
<211> 10
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<400> 282

Ala Ala Tyr Thr Phe Tyr Ala Arg Thr Val
1 5 10

<210> 283
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Gln Ser Trp Asp Lys Ser Glu Gly Tyr Val
1 5 10

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MSB7329PCT_Sequence_Listing_ST25.txt

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Ser Ser Tyr Thr Leu Asn Pro Asn Leu Asn Tyr Val
1 5 10

<210> 285
<211> 10
<212> PRT
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<400> 285
Ser Ala Tyr Ala Met Gly Ser Ser Pro Val
1 5 10

<210> 286
<211> 9
<212> PRT
<213> Homo sapiens

<400> 286
Gln Gln Tyr Gly Asn Asn Pro Thr Thr
1 5

<210> 287
<211> 9
<212> PRT
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<400> 287
Gln Gln Tyr Ser Gly Tyr Pro Leu Thr
1 5

<210> 288
<211> 9
<212> PRT
<213> Homo sapiens

<400> 288
Gln Gln Leu Asp Asn Arg Ser Ile Thr
1 5

<210> 289
<211> 11
<212> PRT
<213> Homo sapiens

<400> 289
Ser Thr Tyr Thr Ser Arg Ser His Ser Tyr Val
1 5 10

<210> 290
<211> 10
<212> PRT
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MSB7329PCT_Sequence_Listing_ST25.txt

<400> 290

Gln Ser Tyr Asp Ser Thr Gly Leu Leu Val
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