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<120> Antibodies

<130> PB62655

<160> 44

<170> FastSEQ for Windows Version 4.0

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<212> PRT

<213> Mouse

<400> 1

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<211> 17

<212> PRT

<213> Mouse

<400> 2

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Gly

<210> 3

<211> 6

<212> PRT

<213> Mouse

<400> 3

Gly Thr Trp Phe Ala Tyr
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<210> 4

<211> 16

<212> PRT

<213> Mouse

<400> 4

Arg Val Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Thr Tyr Leu His
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<210> 5

<211> 7

<212> PRT

<213> Mouse

<400> 5

Lys Val Ser Asn Arg Phe Ser
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<211> 9

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Ser Gln Thr Arg His Val Pro Tyr Thr
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<211> 16

<212> PRT

<213> Artificial Sequence

<220>

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<221> MOD_RES

<222> (16)...(0)

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Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Gly Ser Gly Gly Ser Lys
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<210> 8

<211> 16

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Asp Ala Glu Phe Arg His Asp Ser Gly Gly Ser Gly Ser Gly Ser Lys
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Asp Ala Glu Phe Arg His Asp Ser Gly Ser Gly Gly Ser Gly Gly Lys
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<210> 10

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<223> Peptide

<221> MOD_RES

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 1 5 10 15

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 1 5 10 15

<210> 12
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 <212> PRT
 <213> Artificial Sequence

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 <223> Peptide

<221> MOD_RES
 <222> (16)...(0)
 <223> Biotinylated

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 1 5 10 15

<210> 13
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 <212> PRT
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<221> MOD_RES
 <222> (16)...(0)
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<400> 13
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<210> 14
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<221> MOD_RES
 <222> (16)...(0)
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PhoenixTemp21196.tmp.txt

<400> 14
Asp Ala Glu Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Lys
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<210> 15
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<400> 15
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<210> 16
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Ser Glu Val Lys Met Asp Ala Glu Phe Arg His Asp Gly Ser Gly Lys
1 5 10 15

<210> 17
<211> 115
<212> PRT
<213> Mouse

<400> 17
Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Lys Leu Ser Cys Ala Val Ser Gly Phe Thr Phe Ser Asp Asn
20 25 30
Gly Met Ala Trp Val Arg Gln Ala Pro Arg Lys Gly Pro Glu Trp Ile
35 40 45
Ala Phe Ile Ser Asn Leu Ala Tyr Ser Ile Asp Tyr Ala Asp Thr Val
50 55 60
Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80
Leu Glu Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Val Ser Gly Thr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110
Val Ser Ala
115

<210> 18
<211> 345
<212> DNA

PhoenixTemp21196.tmp.txt

<213> Mouse

<400> 18

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ccaaggaagg ggcctgagtg gatagcggtc attagtaatt tggcatatag tatcgactac 180
gcagacactg tgacgggccc attcaccatc tctagagata atgccaagaa taccctgtac 240
ctggaaatga gcagtctgag gtctgaggac acggccatgt actatttgtt aagcgggacc 300
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<210> 19

<211> 112

<212> PRT

<213> Mouse

<400> 19

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

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<210> 20

<211> 336

<212> DNA

<213> Mouse

<400> 20

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tacctgcaga agccaggcca gtctccaaag ctcctgatct acaaagtffc caaccgattt 180
tctgggggtcc cagacagggt cagtggcagt ggatcaggga cagatttcac actcaagatc 240
agcagagtgg aggctgagga tctgggagtt tatttctgct ctcaaactag acatgttccg 300
tacacgttcg gaggggggac caagctggaa ataaaa 336

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<210> 21

<211> 98

<212> PRT

<213> Human

<400> 21

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

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<210> 22

<211> 296

PhoenixTemp21196.tmp.txt

<212> DNA
<213> Human

<400> 22
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tcctgtgcag cctctggatt caccttcagt agctatagca tgaactgggt cgcagggt 120
ccagggaagg ggctggagtg ggtttcatac attagtagta gtagtagtac catatactac 180
gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ctcactgtat 240
ctgcaaatac acagcctgag agccgaggac acggctgtgt attactgtgc gagaga 296

<210> 23
<211> 15
<212> PRT
<213> Human

<400> 23
Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10 15

<210> 24
<211> 112
<212> PRT
<213> Human

<400> 24
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 Gln Ser Leu Leu His Ser
20 25 30
Asn Gly Tyr Asn Tyr Leu Asp 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 Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95
Leu Gln Thr Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 25
<211> 336
<212> DNA
<213> Human

<400> 25
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atctcctgca ggtctagtc gagcctcctg catagtaatg gatacaacta tttggattgg 120
tacctgcaga agccaggga gtctccacag ctctgatct atttgggttc taatcgggccc 180
tccgggggtc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
agcagagtgg aggctgagga tgttgggggt tattactgca tgcaagctct acaaactccg 300
tggaaggttc gccaaaggac caaggtggaa atcaaa 336

<210> 26
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Humanised

<400> 26
Glu 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 Asp Asn
20 25 30
Gly Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

PhoenixTemp21196.tmp.txt

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      35      40      45
Ser Phe Ile Ser Asn Leu Ala Tyr Ser Ile Asp Tyr Ala Asp Thr Val
  50
Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
  85
Val Ser Gly Thr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100
Val Ser Ser
115

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<210> 27
 <211> 345
 <212> DNA
 <213> Human

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<400> 27
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tcctgtgcag cctctggatt caccttcagt gacaacggaa tggcgtgggt ccgccaggct 120
ccaggaagg ggctggagtg ggtttcattc attagtaatt tggcatatag tatcgactac 180
gcagacactg tgacgggccg attcaccatc tccagagaca atgccaagaa ctactgtat 240
ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgt cagcgggacc 300
tggtttgctt actggggcca gggcacacta gtcacagtct cctca 345

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<210> 28
 <211> 115
 <212> PRT
 <213> Human

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<400> 28
Glu 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 Val Ser Gly Phe Thr Phe Ser Asp Asn
  20      25      30
Gly Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
  35      40      45
Ser Phe Ile Ser Asn Leu Ala Tyr Ser Ile Asp Tyr Ala Asp Thr Val
  50      55      60
Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
  85      90      95
Val Ser Gly Thr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100
Val Ser Ser
115

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<210> 29
 <211> 345
 <212> DNA
 <213> Human

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<400> 29
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ccaggaagg ggctggagtg ggtttcattc attagtaatt tggcatatag tatcgactac 180
gcagacactg tgacgggccg attcaccatc tccagagaca atgccaagaa ctactgtat 240
ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgt cagcgggacc 300
tggtttgctt actggggcca gggcacacta gtcacagtct cctca 345

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<210> 30
 <211> 115
 <212> PRT
 <213> Human

<400> 30

PhoenixTemp21196.tmp.txt

Glu 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 Asp Asn
 20 25 30
 Gly Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ser Phe Ile Ser Asn Leu Ala Tyr Ser Ile Asp Tyr Ala Asp Thr Val
 50 55 60
 Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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
 Val Ser Gly Thr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser
 115

<210> 31
 <211> 345
 <212> DNA
 <213> Human

<400> 31
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 tggtttgctt actggggcca gggcacacta gtcacagtct cctca 345

<210> 32
 <211> 112
 <212> PRT
 <213> Human

<400> 32
 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 Val Ser Gln Ser Leu Leu His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe 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 Ser Gln Thr
 85 90 95
 Arg His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 33
 <211> 336
 <212> DNA
 <213> Human

<400> 33
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 tacctgcaga agccaggga gtctccacag ctctgatct ataaagtttc caaccgattt 180
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 tacacgttcg gcggaggga caaggtggaa atcaaa 336

<210> 34
 <211> 445
 <212> PRT

<213> Human

<400> 34

Glu 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 Asp Asn
 20 25 30
 Gly Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Phe Ile Ser Asn Leu Ala Tyr Ser Ile Asp Tyr Ala Asp Thr Val
 50 55 60
 Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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
 Val Ser Gly Thr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 115 120 125
 Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
 130 135 140
 Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
 145 150 155 160
 Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly
 165 170 175
 Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
 180 185 190
 Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
 195 200 205
 Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
 210 215 220
 Pro Pro Cys Pro Ala Pro Glu Leu Ala Gly Ala Pro Ser Val Phe Leu
 225 230 235 240
 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
 245 250 255
 Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
 260 265 270
 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
 275 280 285
 Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
 290 295 300
 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
 305 310 315 320
 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
 325 330 335
 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 340 345 350
 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 355 360 365
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 370 375 380
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
 385 390 395 400
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 405 410 415
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 420 425 430
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 435 440 445

<210> 35

<211> 1335

<212> DNA

<213> Human

<400> 35

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PhoenixTemp21196.tmp.txt

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tccttcttcc tctacagcaa gctcaccgtg gacaagagca ggtggcagca ggggaacgtc 1260
ttctcatgct ccgtgatgca tgaggctctg cacaaccact acacgcagaa gagcctctcc 1320
ctgtctccgg gtaaa 1335

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<210> 36

<211> 445

<212> PRT

<213> Human

<400> 36

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Thr Phe Ser Asp Asn
20      25      30
Gly Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35      40      45
Ser Phe Ile Ser Asn Leu Ala Tyr Ser Ile Asp Tyr Ala Asp Thr Val
50      55      60
Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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
Val Ser Gly Thr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100      105      110
Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
115      120      125
Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
130      135      140
Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
145      150      155      160
Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly
165      170      175
Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
180      185      190
Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
195      200      205
Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
210      215      220
Pro Pro Cys Pro Ala Pro Glu Leu Ala Gly Ala Pro Ser Val Phe Leu
225      230      235      240
Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
245      250      255
Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
260      265      270      275
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
280      285
Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
290      295      300
Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305      310      315      320
Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys

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PhoenixTemp21196.tmp.txt

325 330 335
 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 340 345 350
 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 355 360 365
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 370 375 380
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
 385 390 395 400
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 405 410 415
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 420 425 430
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 435 440 445

<210> 37
 <211> 1335
 <212> DNA
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<400> 37
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 gcagacactg tgacgggccg attcaccatc tccagagaca atgccaagaa ctcactgtat 240
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 gtggtggacg tgagccacga agaccctgag gtcaagttca actggtacgt ggacggcgtg 840
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 gctccaaca aagccctccc agccccatc gagaaaacca tctccaaagc caaagggcag 1020
 ccccgagaa cacaggtgta caccctgccc ccattcccgg atgagctgac caagaaccag 1080
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 tccttcttcc tctacagcaa gctcaccgtg gacaagagca ggtggcagca ggggaacgtc 1260
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 ctgtctccgg gtaaa 1335

<210> 38
 <211> 445
 <212> PRT
 <213> Human

<400> 38
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 20 25 30
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 35 40 45
 Ser Phe Ile Ser Asn Leu Ala Tyr Ser Ile Asp Tyr Ala Asp Thr Val
 50 55 60
 Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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
 Val Ser Gly Thr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 115 120 125

PhoenixTemp21196.tmp.txt

Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
 130 140
 Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
 145 150 155 160
 Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly
 165 170 175
 Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
 180 185 190
 Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
 195 200 205
 Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
 210 215 220
 Pro Pro Cys Pro Ala Pro Glu Leu Ala Gly Ala Pro Ser Val Phe Leu
 225 230 235 240
 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
 245 250 255
 Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
 260 265 270
 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
 275 280 285
 Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
 290 295 300
 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
 305 310 315 320
 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
 325 330 335
 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 340 345 350
 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 355 360 365
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 370 375 380
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
 385 390 395 400
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 405 410 415
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 420 425 430
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 435 440 445

<210> 39
 <211> 1335
 <212> DNA
 <213> Human

<400> 39
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 gcagacactg tgacgggccg attcaccatc tccagagaca atgccaagaa ctactgtat 240
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 ggctgcctgg tcaaggacta cttccccgaa ccggtgacgg tgtcgtggaa ctcaggcgcc 480
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 aatcacaagc ccagcaacac caaggtggac aagaaagtgt agcccaaata ttgtgacaaa 660
 actcacacat gcccaccgtg cccagcacct gaactcgcgg gggcaccgtc agtcttcctc 720
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 tccttcttcc tctacagcaa gctcaccgtg gacaagagca ggtggcagca ggggaacgtc 1260

PhoenixTemp21196.tmp.txt

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ctgtctccgg gtaaa 1335

<210> 40
<211> 219
<212> PRT
<213> Human

<400> 40
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Glu Pro Ala Ser Ile Ser Cys Arg Val Ser Gln Ser Leu Leu His Ser
20 25 30
Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe 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 Ser Gln Thr
85 90 95
Arg His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
145 150 155 160
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
165 170 175
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 41
<211> 657
<212> DNA
<213> Human

<400> 41
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tacctgcaga agccagggca gtctccacag ctctgatct ataaagtttc caaccgattt 180
tctggggctcc ctgacaggtt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
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tacacgttcg gcggagggac caaggtggaa atcaaacgta cgggtggctgc accatctgtc 360
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ctgaataact tctatcccag agaggccaaa gtacagtggg aggtggacaa cgccctccaa 480
tcgggtaact cccaggagag gtgcacagag caggacagca aggacagcac ctacagcctc 540
agcagcacc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa 600
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<210> 42
<211> 1335
<212> DNA
<213> Human

<400> 42
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cctggcaagg gcctggagtg ggtgtccttc atcagcaacc tggcctacag catcgactac 180
gccgacaccg tgaccggcag attcaccatc agccgggaca acgccaagaa cagcctgtac 240
ctgcagatga acagcctgag agccgaggac accgccgtgt actactgtgt gagcggcacc 300
tggttcgctt actggggcca gggcacctgt gtgaccgtgt ccagcgccag caccaagggc 360

PhoenixTemp21196.tmp.txt

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aaccacaagc ccagcaacac caaggtggac aagaaggtgg agcccaagag ctgtgacaag 660
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<210> 43
 <211> 657
 <212> DNA
 <213> Human

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<400> 43
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tatctgcaga agcctggcca gagccctcag ctgctgatct acaaggtgtc caaccggttc 180
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agcagcacc tgaccctgag caaggccgac tacgagaagc acaaggtgta cgcctgtgag 600
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<210> 44
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

<221> MOD_RES
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 <223> Biotinylated

<400> 44
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