

SEQUENCE LISTING

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<130> B2701

<160> 14

<170> PatentIn version 3.5

<210> 1

<211> 148

<212> PRT

<213> Homo sapiens

<400> 1

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Cys	Val	Ile	Pro	Gly	Ser	Asp	Pro	Phe	Leu	Glu	Tyr	Asn	Asn	Tyr	Gly
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Cys	Tyr	Cys	Gly	Leu	Gly	Gly	Ser	Gly	Thr	Pro	Val	Asp	Glu	Leu	Asp
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Lys	Cys	Cys	Gln	Thr	His	Asp	Asn	Cys	Tyr	Asp	Gln	Ala	Lys	Lys	Leu
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Asp	Ser	Cys	Lys	Phe	Leu	Leu	Asp	Asn	Pro	Tyr	Thr	His	Thr	Tyr	Ser
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Tyr	Ser	Cys	Ser	Gly	Ser	Ala	Ile	Thr	Cys	Ser	Ser	Lys	Asn	Lys	Glu
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Cys	Glu	Ala	Phe	Ile	Cys	Asn	Cys	Asp	Arg	Asn	Ala	Ala	Ile	Cys	Phe
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Ser Lys Ala Pro Tyr Asn Lys Ala His Lys Asn Leu Asp Thr Lys Lys
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Tyr Cys Gln Ser
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<223> 14G9 VL

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asn Arg Phe Thr Gly
50 55 60

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

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

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Ala Asp Ala Ala
100 105 110

Pro Thr Val Ser Ile
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<213> Artificial Sequence

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<223> 14G9 VH

<400> 3

Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala
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Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Trp Ile His Trp Val Lys Arg Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

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

Lys Asp Lys Ala Thr Leu Ala Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Gln Thr Leu Tyr Tyr Glu Ala Leu Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Leu Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser Val Tyr
115 120 125

Pro Leu
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<210> 4
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<213> Artificial Sequence

<220>

<223> 2B L

<400> 4

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Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Asp Val Ser Thr Ala
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Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

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

Ser Arg Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

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

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

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
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<212> PRT
<213> Artificial Sequence

<220>
<223> 2B H

<400> 5

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 Asn Tyr
20 25 30

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

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

Lys Asp Arg Ala Thr Leu Thr Val Asp Lys Ser Thr 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 Gln Thr Leu Tyr Tyr Glu Ala Leu Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
115 120 125

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
130 135 140

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145 150 155 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
165 170 175

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
180 185 190

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

Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys
210 215 220

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
225 230 235 240

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
245 250 255

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
260 265 270

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
275 280 285

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
290 295 300

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu

305 310 315 320

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
325 330 335

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
340 345 350

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
355 360 365

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
370 375 380

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
385 390 395 400

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
405 410 415

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
420 425 430

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
435 440 445

Lys

<210> 6
<211> 449
<212> PRT
<213> Artificial Sequence

<220>
<223> 2B1 H

<400> 6

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

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

Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys
210 215 220

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Glu Gly Gly Pro
225 230 235 240

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
245 250 255

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
260 265 270

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
275 280 285

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
290 295 300

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
305 310 315 320

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
325 330 335

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
340 345 350

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
355 360 365

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
370 375 380

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
385 390 395 400

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

405

410

415

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

<210> 7

<211> 449

<212> PRT

<213> Artificial Sequence

<220>

<223> 2B2 H

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
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Trp Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

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

Lys Asp Arg Ala Thr Leu Thr Val Asp Lys Ser Thr 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 Gln Thr Leu Tyr Tyr Glu Ala Leu Asp Tyr Trp Gly Gln Gly

100

105

110

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
 130 135 140

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
 145 150 155 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
 165 170 175

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
 180 185 190

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

Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys
 210 215 220

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Glu Gly Gly Pro
 225 230 235 240

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
 245 250 255

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
 260 265 270

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 275 280 285

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 290 295 300

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
305 310 315 320

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Ser Ile Glu Lys
325 330 335

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
340 345 350

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
355 360 365

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
370 375 380

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
385 390 395 400

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
405 410 415

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
420 425 430

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
435 440 445

Lys

<210> 8
<211> 351
<212> DNA
<213> Artificial Sequence

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<223> 14G9 VL

<400> 8

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ggtcaatctc ctaaactact gatttactgg gcatccaccc ggcacactgg agtccctaata	180
cgcttcacag gcagtagatc tgggacagat tatactctca ccatcagcag tgtgcaggct	240
gaagacctgg cactttatta ctgtcagcaa gattatagca ctcctcctac gttcgggtgct	300
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<210> 9
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 <213> Artificial Sequence

<220>
 <223> 14G9 VH

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tcctgcaagg cttctggcta caccttcacc aactactgga tacactgggt gaagcggagg	120
cctggacaag gccttgaatg gattggtaat attgaccctt ctgatactag aactcactac	180
aatcaaaaagt tcaaggacaa ggccacattg gctgtagaca aatcctccag cacagcctac	240
atgcagctca gcagcctgac atctgaggac tctgcgggtct tttactgtgc aagacagacc	300
ctctactatg aggccttggga ctactggggc caaggcacca ctctcacagt ctcctcagcc	360
aaaacgacac ccccatctgt ctatccactg gg	392

<210> 10
 <211> 726
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 2B L

<400> 10	
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cagtgtgaga tcgtgatgac gcagtcgccg gcgacgctga gcgtgagtc gggggagcgg	120

gcgacgctga gctgcaaggc gtcgcaggac gtgagcacgg ccgtcgcgtg gtatcaacag	180
aagccggggc aagcgccgcg gctgctgata tactggggcga gcacgcggca cacgggcatc	240
ccggcgcgat tctcggggag ccggagcggg acggagtaca cgctgacgat ctcgtcgtg	300
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tcccaggaat ctgtcactga gcaggactct aaggatagca catactccct gtcctctact	600
ctgacactga gcaaggctga ttacgagaaa cacaaaagtgt acgcctgtga agtcacacat	660
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ctttga	726

<210> 11
 <211> 1431
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 2B H

<400> 11	
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aaagtctcgt gcaaggcgag cggatatacg ttcacgaact actggattca ctgggtccgg	180
caagcgccgg ggcaggggct ggagtggatc gggaacatcg acccgtcgga cacgcggacg	240
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cctgaggtga catgtgtggt ggtggatgtg tctcatgagg accccgaagt caaatttaat	900
tggatatgtcg acggcgtcga ggtgcataat gccaaaacca agcctagaga ggaacagtac	960
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gaaatgacca aaaaccaggt gtccctgaca tgcctgggtca aaggcttcta cccttctgac	1200
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gtgctggatt ctgatggctc tttctttctg tactccaaac tgactgtgga caagtctaga	1320
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actcagaaat ccctgtctct gtctcccggg aaatgataag ctttga	1426

<210> 13
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 <213> Artificial Sequence

<220>
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caagcgccgg ggcaggggct ggagtggatc ggggaacatcg acccgtcgga cacgcggacg	240
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cagacgctgt actacgaggc gctggactac tgggggcagg ggacgctcgt cacggtctcg	420
agcgctagca caaaggggccc tagtgtgttt cctctggctc cctcttccaa atccacttct	480
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agtggactgt actctctgtc atctgtgggtc actgtgccct cttcatctct gggaacccag	660
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actcagaaat ccctgtctct gtctcccggg aaatgataag ctttgatgtc atgcatgagg	1440
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<210> 14
<211> 126
<212> PRT
<213> Homo sapiens

<400> 14

Ala Val Trp Gln Phe Arg Lys Met Ile Lys Cys Val Ile Pro Gly Ser
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Asp Pro Phe Leu Glu Tyr Asn Asn Tyr Gly Cys Tyr Cys Gly Leu Gly
20 25 30

Gly Ser Gly Thr Pro Val Asp Glu Leu Asp Lys Cys Cys Gln Thr His
35 40 45

Asp Asn Cys Tyr Asp Gln Ala Lys Lys Leu Asp Ser Cys Lys Phe Leu
50 55 60

Leu Asp Asn Pro Tyr Thr His Thr Tyr Ser Tyr Ser Cys Ser Gly Ser
65 70 75 80

Ala Ile Thr Cys Ser Ser Lys Asn Lys Glu Cys Glu Ala Phe Ile Cys
85 90 95

Asn Cys Asp Arg Asn Ala Ala Ile Cys Phe Ser Lys Ala Pro Tyr Asn
100 105 110

Lys Ala His Lys Asn Leu Asp Thr Lys Lys Tyr Cys Gln Ser
115 120 125