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<120> USE OF MARKERS IN THE DIAGNOSIS AND TREATMENT OF PROSTATE CANCER

<130> 119992-06620

<140> New Application

<141> Concurrently Herewith

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<151> 2012-10-24

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<151> 2012-10-24

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<151> 2012-09-18

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<151> 2012-07-18

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<150> 61/665,201

<151> 2012-06-27

<160> 45

<170> PatentIn version 3.5

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ctcatcaaga aggatgtgga tgaagcttac atgaacaagg tagagctgga gtctcgctg	840
gaagggtgga ccgacgagat caacttcctc aggcagctat atgaagagga gatccgggag	900
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SeqLst

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gacatggaca gcatcattgc tgagggtcaag gcacagtacg aggatattgc caaccgcagc      1020
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ctcagctaca gcctgggctc cagctttggc tctggcgcg gctccagctc cttcagccgc      1560
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ctcctgcgct gccccagagc ctgggaagga ggccgctatg cagggtagca ctgggaacag      1740
gagaccacc tgaggctcag ccctagccct cagcccacct ggggagttaa ctacctgggg      1800
accccccttg cccatgcctc cagctacaaa acaattcaat tgcttttttt ttttgggtcca      1860
aaataaaacc tcagctagct ctgccaatgt caaaaaaaaa a                        1901

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<210> 9
<211> 456
<212> PRT
<213> Homo sapiens

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<400> 9
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Ser Thr Arg Gly Gly Ser Leu Leu Ala Gly Gly Gly Gly Phe Gly Gly
20          25          30

Gly Ser Leu Ser Gly Gly Gly Gly Ser Arg Ser Ile Ser Ala Ser Ser
35          40          45

Ala Arg Phe Val Ser Ser Gly Ser Gly Gly Gly Tyr Gly Gly Gly Met
50          55          60

Arg Val Cys Gly Phe Gly Gly Gly Ala Gly Ser Val Phe Gly Gly Gly
65          70          75          80

Phe Gly Gly Gly Val Gly Gly Gly Phe Gly Gly Gly Phe Gly Gly Gly
85          90          95

Asp Gly Gly Leu Leu Ser Gly Asn Glu Lys Ile Thr Met Gln Asn Leu
100         105         110

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SeqLst

Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu
115 120 125

Ala Asn Ala Asp Leu Glu Val Lys Ile His Asp Trp Tyr Gln Lys Gln
130 135 140

Thr Pro Thr Ser Pro Glu Cys Asp Tyr Ser Gln Tyr Phe Lys Thr Ile
145 150 155 160

Glu Glu Leu Arg Asp Lys Ile Met Ala Thr Thr Ile Asp Asn Ser Arg
165 170 175

Val Ile Leu Glu Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg
180 185 190

Leu Lys Tyr Glu Asn Glu Leu Ala Leu Arg Gln Gly Val Glu Ala Asp
195 200 205

Ile Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr
210 215 220

Asp Leu Glu Met Gln Ile Glu Gly Leu Asn Glu Glu Leu Ala Tyr Leu
225 230 235 240

Lys Lys Asn His Glu Glu Glu Met Lys Glu Phe Ser Ser Gln Leu Ala
245 250 255

Gly Gln Val Asn Val Glu Met Asp Ala Ala Pro Gly Val Asp Leu Thr
260 265 270

Arg Val Leu Ala Glu Met Arg Glu Gln Tyr Glu Ala Met Ala Glu Lys
275 280 285

Asn Arg Arg Asp Val Glu Ala Trp Phe Phe Ser Lys Thr Glu Glu Leu
290 295 300

Asn Lys Glu Val Ala Ser Asn Thr Glu Met Ile Gln Thr Ser Lys Thr
305 310 315 320

Glu Ile Thr Asp Leu Arg Arg Thr Met Gln Glu Leu Glu Ile Glu Leu
325 330 335

Gln Ser Gln Leu Ser Met Lys Ala Gly Leu Glu Asn Ser Leu Ala Glu
340 345 350

Thr Glu Cys Arg Tyr Ala Thr Gln Leu Gln Gln Ile Gln Gly Leu Ile
355 360 365

Gly Gly Leu Glu Ala Gln Leu Ser Glu Leu Arg Cys Glu Met Glu Ala
370 375 380

SeqLst

Gln Asn Gln Glu Tyr Lys Met Leu Leu Asp Ile Lys Thr Arg Leu Glu
 385 390 395 400

Gln Glu Ile Ala Thr Tyr Arg Ser Leu Leu Glu Gly Gln Asp Ala Lys
 405 410 415

Met Ala Gly Ile Gly Ile Arg Glu Ala Ser Ser Gly Gly Gly Gly Ser
 420 425 430

Ser Ser Asn Phe His Ile Asn Val Glu Glu Ser Val Asp Gly Gln Val
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Val Ser Ser His Lys Arg Glu Ile
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<210> 10
 <211> 1861
 <212> DNA
 <213> Homo sapiens

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 tcttcagcaa gactgaggag ctgaacaaag aggtggcctc caacacagaa atgatccaga 1140
 ccagcaagac ggagatcaca gacctgagac gcacgatgca ggagctggag atcgagctgc 1200
 agtcccagct cagcatgaaa gctgggctgg agaactcact ggccgagaca gagtgccgct 1260

	SeqLst	
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cacggctgga gcaggagatc gctacttacc gcagcctgct cgagggccag gatgccaaga		1440
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acatcaatgt agaagagtca gtggatggac aggtggtttc ttcccacaag agagaaatct		1560
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ggactggcca gagggcctgc acatgcaaac tccagtccct gccttcagag agctgaaaag		1680
ggtcctcgg tcttttattt cagggttttg catgcgctct attccccctc tgcctctccc		1740
caccttcttt ggagcaagga gatgcagctg tattgtgtaa caagctcatt tgtacagtgt		1800
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a		1861

<210> 11
 <211> 430
 <212> PRT
 <213> Homo sapiens

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			20					25					30		
Ala	Ser	Val	Tyr	Ala	Gly	Ala	Gly	Gly	Ser	Gly	Ser	Arg	Ile	Ser	Val
		35					40					45			
Ser	Arg	Ser	Thr	Ser	Phe	Arg	Gly	Gly	Met	Gly	Ser	Gly	Gly	Leu	Ala
	50					55					60				
Thr	Gly	Ile	Ala	Gly	Gly	Leu	Ala	Gly	Met	Gly	Gly	Ile	Gln	Asn	Glu
65					70					75					80
Lys	Glu	Thr	Met	Gln	Ser	Leu	Asn	Asp	Arg	Leu	Ala	Ser	Tyr	Leu	Asp
			85						90					95	
Arg	Val	Arg	Ser	Leu	Glu	Thr	Glu	Asn	Arg	Arg	Leu	Glu	Ser	Lys	Ile
			100					105					110		
Arg	Glu	His	Leu	Glu	Lys	Lys	Gly	Pro	Gln	Val	Arg	Asp	Trp	Ser	His
		115					120					125			
Tyr	Phe	Lys	Ile	Ile	Glu	Asp	Leu	Arg	Ala	Gln	Ile	Phe	Ala	Asn	Thr
	130					135					140				
Val	Asp	Asn	Ala	Arg	Ile	Val	Leu	Gln	Ile	Asp	Asn	Ala	Arg	Leu	Ala
145					150					155					160

SeqLst

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

SeqLst

<210> 12
 <211> 1485
 <212> DNA
 <213> Homo sapiens

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 cttcaccact cgctccacct tctccaccaa ctaccgggtcc ctggggtctg tccaggcgcc 180
 cagctacggc gcccggccgg tcagcagcgc ggccagcgtc tatgcaggcg ctgggggctc 240
 tggttcccg atctccgtgt cccgctccac cagcttcagg ggcggcatgg ggtccggggg 300
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<210> 13
 <211> 430
 <212> PRT
 <213> Homo sapiens

<400> 13
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SeqLst

Gly Ser Val Gln Ala Pro Ser Tyr Gly Ala Arg Pro Val Ser Ser Ala
20 25 30

Ala Ser Val Tyr Ala Gly Ala Gly Gly Ser Gly Ser Arg Ile Ser Val
35 40 45

Ser Arg Ser Thr Ser Phe Arg Gly Gly Met Gly Ser Gly Gly Leu Ala
50 55 60

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

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

Arg Val Arg Ser Leu Glu Thr Glu Asn Arg Arg Leu Glu Ser Lys Ile
100 105 110

Arg Glu His Leu Glu Lys Lys Gly Pro Gln Val Arg Asp Trp Ser His
115 120 125

Tyr Phe Lys Ile Ile Glu Asp Leu Arg Ala Gln Ile Phe Ala Asn Thr
130 135 140

Val Asp Asn Ala Arg Ile Val Leu Gln Ile Asp Asn Ala Arg Leu Ala
145 150 155 160

Ala Asp Asp Phe Arg Val Lys Tyr Glu Thr Glu Leu Ala Met Arg Gln
165 170 175

Ser Val Glu Asn Asp Ile His Gly Leu Arg Lys Val Ile Asp Asp Thr
180 185 190

Asn Ile Thr Arg Leu Gln Leu Glu Thr Glu Ile Glu Ala Leu Lys Glu
195 200 205

Glu Leu Leu Phe Met Lys Lys Asn His Glu Glu Glu Val Lys Gly Leu
210 215 220

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

Lys Ser Gln Asp Leu Ala Lys Ile Met Ala Asp Ile Arg Ala Gln Tyr
245 250 255

Asp Glu Leu Ala Arg Lys Asn Arg Glu Glu Leu Asp Lys Tyr Trp Ser
260 265 270

Gln Gln Ile Glu Glu Ser Thr Thr Val Val Thr Thr Gln Ser Ala Glu
275 280 285

SeqLst

Val Gly Ala Ala Glu Thr Thr Leu Thr Glu Leu Arg Arg Thr Val Gln
290 295 300

Ser Leu Glu Ile Asp Leu Asp Ser Met Arg Asn Leu Lys Ala Ser Leu
305 310 315 320

Glu Asn Ser Leu Arg Glu Val Glu Ala Arg Tyr Ala Leu Gln Met Glu
325 330 335

Gln Leu Asn Gly Ile Leu Leu His Leu Glu Ser Glu Leu Ala Gln Thr
340 345 350

Arg Ala Glu Gly Gln Arg Gln Ala Gln Glu Tyr Glu Ala Leu Leu Asn
355 360 365

Ile Lys Val Lys Leu Glu Ala Glu Ile Ala Thr Tyr Arg Arg Leu Leu
370 375 380

Glu Asp Gly Glu Asp Phe Asn Leu Gly Asp Ala Leu Asp Ser Ser Asn
385 390 395 400

Ser Met Gln Thr Ile Gln Lys Thr Thr Thr Arg Arg Ile Val Asp Gly
405 410 415

Lys Val Val Ser Glu Thr Asn Asp Thr Lys Val Leu Arg His
420 425 430

<210> 14
<211> 1439
<212> DNA
<213> Homo sapiens

<400> 14

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atgggggtccg ggggcctggc caccgggata gccgggggtc tggcaggaat gggaggcatc	300
cagaacgaga aggagaccat gcaaagcctg aacgaccgcc tggcctctta cctggacaga	360
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aagaagggac ccaggtcag agactggagc cattacttca agatcatcga ggacctgagg	480
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cgtcttgctg ctgatgactt tagagtcaag tatgagacag agctggccat gcgccagtct	600
gtggagaacg acatccatgg gctccgcaag gtcattgatg acaccaatat cacacgactg	660
cagctggaga cagagatcga ggctctcaag gaggagctgc tcttcatgaa gaagaaccac	720
gaagaggaag taaaaggcct acaagcccag attgccagct ctgggttgac cgtggaggta	780

	SeqLst	
gatgccccca aatctcagga cctcgccaag atcatggcag acatccgggc ccaatatgac		840
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gccagcttgg agaacagcct gagggaggtg gagggccgct acgccctaca gatggagcag		1080
ctcaacggga tcctgctgca ccttgagtca gagctggcac agacccgggc agagggacag		1140
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<210> 15
 <211> 400
 <212> PRT
 <213> Homo sapiens

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20 25 30	
Ala Pro Ser Ile His Gly Gly Ser Gly Gly Arg Gly Val Ser Val Ser	
35 40 45	
Ser Ala Arg Phe Val Ser Ser Ser Ser Gly Ala Tyr Gly Gly Gly	
50 55 60	
Tyr Gly Gly Val Leu Thr Ala Ser Asp Gly Leu Leu Ala Gly Asn Glu	
65 70 75 80	
Lys Leu Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp	
85 90 95	
Lys Val Arg Ala Leu Glu Ala Ala Asn Gly Glu Leu Glu Val Lys Ile	
100 105 110	
Arg Asp Trp Tyr Gln Lys Gln Gly Pro Gly Pro Ser Arg Asp Tyr Ser	
115 120 125	
His Tyr Tyr Thr Thr Ile Gln Asp Leu Arg Asp Lys Ile Leu Gly Ala	
130 135 140	
Thr Ile Glu Asn Ser Arg Ile Val Leu Gln Ile Asp Asn Ala Arg Leu	
145 150 155 160	

SeqLst

Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu Gln Ala Leu Arg
 165 170 175

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

Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln Ile Glu Gly Leu Lys
 195 200 205

Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu Glu Ile Ser Thr
 210 215 220

Leu Arg Gly Gln Val Gly Gly Gln Val Ser Val Glu Val Asp Ser Ala
 225 230 235 240

Pro Gly Thr Asp Leu Ala Lys Ile Leu Ser Asp Met Arg Ser Gln Tyr
 245 250 255

Glu Val Met Ala Glu Gln Asn Arg Lys Asp Ala Glu Ala Trp Phe Thr
 260 265 270

Ser Arg Thr Glu Glu Leu Asn Arg Glu Val Ala Gly His Thr Glu Gln
 275 280 285

Leu Gln Met Ser Arg Ser Glu Val Thr Asp Leu Arg Arg Thr Leu Gln
 290 295 300

Gly Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met Lys Ala Ala Leu
 305 310 315 320

Glu Asp Thr Leu Ala Glu Thr Glu Ala Arg Phe Gly Ala Gln Leu Ala
 325 330 335

His Ile Gln Ala Leu Ile Ser Gly Ile Glu Ala Gln Leu Gly Asp Val
 340 345 350

Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr Gln Arg Leu Met Asp
 355 360 365

Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Thr Tyr Arg Ser Leu Leu
 370 375 380

Glu Gly Gln Glu Asp His Tyr Asn Asn Leu Ser Ala Ser Lys Val Leu
 385 390 395 400

<210> 16

<211> 1490

<212> DNA

<213> Homo sapiens

<400> 16

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SeqLst

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aagccaatat gaggtcatgg ccgagcagaa ccggaaggat gctgaagcct ggttcaccag      960
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tttgtctgcc tccaagggtc tctgaggcag caggctctgg ggcttctgct gtcctttgga     1380
gggtgtcttc tgggtagagg gatgggaagg aaggggacct taccctcggc tcttctcctg     1440
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<210> 17

<211> 378

<212> PRT

<213> Homo sapiens

<400> 17

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

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

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SeqLst

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SeqLst

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SeqLst

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SeqLst

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SeqLst

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SeqLst

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

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

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

Lys Asp Ala Gly Lys Ala Pro Leu Lys Ile Phe Ala Gln Asp Gly Glu
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 Val Trp Gly Gly Val Asn Ile Pro His Ser Pro Tyr Arg Val Asn Ile
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 Gly Gln Gly Ser His Pro Gln Lys Val Lys Val Phe Gly Pro Gly Val
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 Glu Arg Ser Gly Leu Lys Ala Asn Glu Pro Thr His Phe Thr Val Asp
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 Cys Thr Glu Ala Gly Glu Gly Asp Val Ser Val Gly Ile Lys Cys Asp
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 His Asn Ala Asn Asp Thr Phe Thr Val Lys Tyr Val Pro Pro Ala Ala
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 Gly Arg Tyr Thr Ile Lys Val Leu Phe Ala Ser Gln Glu Ile Pro Ala
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 Ser Pro Phe Arg Val Lys Val Asp Pro Ser His Asp Ala Ser Lys Val
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 Lys Ala Glu Gly Pro Gly Leu Ser Lys Ala Gly Val Glu Asn Gly Lys
 850 855 860
 Pro Thr His Phe Thr Val Tyr Thr Lys Gly Ala Gly Lys Ala Pro Leu
 865 870 875 880
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 885 890 895
 Asp Ile Ile Asp Asn Tyr Asp Tyr Ser His Thr Val Lys Tyr Thr Pro
 900 905 910
 Thr Gln Gln Gly Asn Met Gln Val Leu Val Thr Tyr Gly Gly Asp Pro
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 Ile Pro Lys Ser Pro Phe Thr Val Gly Val Ala Ala Pro Leu Asp Leu
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SeqLst

Ser Lys Ile Lys Leu Asn Gly Leu Glu Asn Arg Val Glu Val Gly Lys
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 Asp Gln Glu Phe Thr Val Asp Thr Arg Gly Ala Gly Gly Gln Gly Lys
 965 970 975
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 Val Thr Pro Val Thr Gly Arg Glu Asn Ser Thr Ala Lys Phe Ile Pro
 995 1000 1005
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 1010 1015 1020
 Pro Val Pro Gly Ser Pro Tyr Thr Val Glu Ala Ser Leu Pro Pro
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SeqLst

Leu Thr Met Lys Tyr Gly Gly Glu Leu Val Pro His Phe Pro Ala
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 Arg Val Lys Val Glu Pro Ala Val Asp Thr Ser Arg Ile Lys Val
 1220 1225 1230
 Phe Gly Pro Gly Ile Glu Gly Lys Asp Val Phe Arg Glu Ala Thr
 1235 1240 1245
 Thr Asp Phe Thr Val Asp Ser Arg Pro Leu Thr Gln Val Gly Gly
 1250 1255 1260
 Asp His Ile Lys Ala His Ile Ala Asn Pro Ser Gly Ala Ser Thr
 1265 1270 1275
 Glu Cys Phe Val Thr Asp Asn Ala Asp Gly Thr Tyr Gln Val Glu
 1280 1285 1290
 Tyr Thr Pro Phe Glu Lys Gly Leu His Val Val Glu Val Thr Tyr
 1295 1300 1305
 Asp Asp Val Pro Ile Pro Asn Ser Pro Phe Lys Val Ala Val Thr
 1310 1315 1320
 Glu Gly Cys Gln Pro Ser Arg Val Gln Ala Gln Gly Pro Gly Leu
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 Lys Glu Ala Phe Thr Asn Lys Pro Asn Val Phe Thr Val Val Thr
 1340 1345 1350
 Arg Gly Ala Gly Ile Gly Gly Leu Gly Ile Thr Val Glu Gly Pro
 1355 1360 1365
 Ser Glu Ser Lys Ile Asn Cys Arg Asp Asn Lys Asp Gly Ser Cys
 1370 1375 1380
 Ser Ala Glu Tyr Ile Pro Phe Ala Pro Gly Asp Tyr Asp Val Asn
 1385 1390 1395
 Ile Thr Tyr Gly Gly Ala His Ile Pro Gly Ser Pro Phe Arg Val
 1400 1405 1410
 Pro Val Lys Asp Val Val Asp Pro Ser Lys Val Lys Ile Ala Gly
 1415 1420 1425
 Pro Gly Leu Gly Ser Gly Val Arg Ala Arg Val Leu Gln Ser Phe
 1430 1435 1440
 Thr Val Asp Ser Ser Lys Ala Gly Leu Ala Pro Leu Glu Val Arg
 1445 1450 1455

SeqLst

Val	Leu	Gly	Pro	Arg	Gly	Leu	Val	Glu	Pro	Val	Asn	Val	Val	Asp
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Asn	Gly	Asp	Gly	Thr	His	Thr	Val	Thr	Tyr	Thr	Pro	Ser	Gln	Glu
	1475					1480					1485			
Gly	Pro	Tyr	Met	Val	Ser	Val	Lys	Tyr	Ala	Asp	Glu	Glu	Ile	Pro
	1490					1495					1500			
Arg	Ser	Pro	Phe	Lys	Val	Lys	Val	Leu	Pro	Thr	Tyr	Asp	Ala	Ser
	1505					1510					1515			
Lys	Val	Thr	Ala	Ser	Gly	Pro	Gly	Leu	Ser	Ser	Tyr	Gly	Val	Pro
	1520					1525					1530			
Ala	Ser	Leu	Pro	Val	Asp	Phe	Ala	Ile	Asp	Ala	Arg	Asp	Ala	Gly
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Glu	Gly	Leu	Leu	Ala	Val	Gln	Ile	Thr	Asp	Gln	Glu	Gly	Lys	Pro
	1550					1555					1560			
Lys	Arg	Ala	Ile	Val	His	Asp	Asn	Lys	Asp	Gly	Thr	Tyr	Ala	Val
	1565					1570					1575			
Thr	Tyr	Ile	Pro	Asp	Lys	Thr	Gly	Arg	Tyr	Met	Ile	Gly	Val	Thr
	1580					1585					1590			
Tyr	Gly	Gly	Asp	Asp	Ile	Pro	Leu	Ser	Pro	Tyr	Arg	Ile	Arg	Ala
	1595					1600					1605			
Thr	Gln	Thr	Gly	Asp	Ala	Ser	Lys	Cys	Leu	Ala	Thr	Gly	Pro	Gly
	1610					1615					1620			
Ile	Ala	Ser	Thr	Val	Lys	Thr	Gly	Glu	Glu	Val	Gly	Phe	Val	Val
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	1640					1645					1650			
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Pro	Phe	Thr	Val	Met	Ala	Thr	Asp	Gly	Glu	Val	Thr	Ala	Val	Glu
	1700					1705					1710			

SeqLst

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 Lys Thr Ala Thr Pro Glu Ile Val Asp Asn Lys Asp Gly Thr Val
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 Tyr Val Asn Tyr Pro Asn Ser Gly Ser Val Ser Ala Tyr Gly Pro
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 Thr Cys Thr Val Thr Tyr Leu Pro Thr Leu Pro Gly Asp Tyr Ser
 1865 1870 1875
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 1880 1885 1890
 Thr Ala Lys Ile Thr Asp Asp Ser Arg Arg Cys Ser Gln Val Lys
 1895 1900 1905
 Leu Gly Ser Ala Ala Asp Phe Leu Leu Asp Ile Ser Glu Thr Asp
 1910 1915 1920
 Leu Ser Ser Leu Thr Ala Ser Ile Lys Ala Pro Ser Gly Arg Asp
 1925 1930 1935
 Glu Pro Cys Leu Leu Lys Arg Leu Pro Asn Asn His Ile Gly Ile
 1940 1945 1950
 Ser Phe Ile Pro Arg Glu Val Gly Glu His Leu Val Ser Ile Lys
 1955 1960 1965

SeqLst

Lys Asn Gly Asn His Val Ala Asn Ser Pro Val Ser Ile Met Val
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 Val Gln Ser Glu Ile Gly Asp Ala Arg Arg Ala Lys Val Tyr Gly
 1985 1990 1995
 Arg Gly Leu Ser Glu Gly Arg Thr Phe Glu Met Ser Asp Phe Ile
 2000 2005 2010
 Val Asp Thr Arg Asp Ala Gly Tyr Gly Gly Ile Ser Leu Ala Val
 2015 2020 2025
 Glu Gly Pro Ser Lys Val Asp Ile Gln Thr Glu Asp Leu Glu Asp
 2030 2035 2040
 Gly Thr Cys Lys Val Ser Tyr Phe Pro Thr Val Pro Gly Val Tyr
 2045 2050 2055
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 2075 2080 2085
 Thr Arg Thr Ser Arg Ala Pro Ser Val Ala Thr Val Gly Ser Ile
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 Cys Asp Leu Asn Leu Lys Ile Pro Glu Ile Asn Ser Ser Asp Met
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 Ser Ala His Val Thr Ser Pro Ser Gly Arg Val Thr Glu Ala Glu
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 Gln Glu Met Gly Val His Thr Val Ser Val Lys Tyr Arg Gly Gln
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 2210 2215 2220

SeqLst

Lys Ala Glu Ile Thr Phe Asp Asp His Lys Asn Gly Ser Cys Gly
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 2270 2275 2280
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 2285 2290 2295
 Ile Arg Leu Asn Gly Ala Lys Gly Lys Ile Asp Ala Lys Val His
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 Ser Pro Ser Gly Ala Val Glu Glu Cys His Val Ser Glu Leu Glu
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 Pro Asp Lys Tyr Ala Val Arg Phe Ile Pro His Glu Asn Gly Val
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 His Thr Ile Asp Val Lys Phe Asn Gly Ser His Val Val Gly Ser
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 Pro Phe Lys Val Arg Val Gly Glu Pro Gly Gln Ala Gly Asn Pro
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 Gly Ile Gln Ser Glu Phe Phe Ile Asn Thr Thr Arg Ala Gly Pro
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 2465 2470 2475

SeqLst

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 Ile Pro Lys Ala Ser Ser Asp Ala Ser Lys Val Thr Ser Lys Gly
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 His Gly Pro Thr Thr Pro Cys Glu Glu Val Ser Met Lys His Val
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SeqLst

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SeqLst

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 <211> 2602
 <212> PRT
 <213> Homo sapiens

SeqLst

<400> 28

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Val Asn Lys Arg Ile Gly Asn Leu Gln Thr Asp Leu Ser Asp Gly Leu
 35 40 45

Arg Leu Ile Ala Leu Leu Glu Val Leu Ser Gln Lys Arg Met Tyr Arg
 50 55 60

Lys Tyr His Gln Arg Pro Thr Phe Arg Gln Met Gln Leu Glu Asn Val
 65 70 75 80

Ser Val Ala Leu Glu Phe Leu Asp Arg Glu Ser Ile Lys Leu Val Ser
 85 90 95

Ile Asp Ser Lys Ala Ile Val Asp Gly Asn Leu Lys Leu Ile Leu Gly
 100 105 110

Leu Val Trp Thr Leu Ile Leu His Tyr Ser Ile Ser Met Pro Val Trp
 115 120 125

Glu Asp Glu Gly Asp Asp Asp Ala Lys Lys Gln Thr Pro Lys Gln Arg
 130 135 140

Leu Leu Gly Trp Ile Gln Asn Lys Ile Pro Tyr Leu Pro Ile Thr Asn
 145 150 155 160

Phe Asn Gln Asn Trp Gln Asp Gly Lys Ala Leu Gly Ala Leu Val Asp
 165 170 175

Ser Cys Ala Pro Gly Leu Cys Pro Asp Trp Glu Ser Trp Asp Pro Gln
 180 185 190

Lys Pro Val Asp Asn Ala Arg Glu Ala Met Gln Gln Ala Asp Asp Trp
 195 200 205

Leu Gly Val Pro Gln Val Ile Thr Pro Glu Glu Ile Ile His Pro Asp
 210 215 220

Val Asp Glu His Ser Val Met Thr Tyr Leu Ser Gln Phe Pro Lys Ala
 225 230 235 240

Lys Leu Lys Pro Gly Ala Pro Leu Lys Pro Lys Leu Asn Pro Lys Lys
 245 250 255

Ala Arg Ala Tyr Gly Arg Gly Ile Glu Pro Thr Gly Asn Met Val Lys
 260 265 270

SeqLst

Gln Pro Ala Lys Phe Thr Val Asp Thr Ile Ser Ala Gly Gln Gly Asp
 275 280 285
 Val Met Val Phe Val Glu Asp Pro Glu Gly Asn Lys Glu Glu Ala Gln
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 Val Thr Pro Asp Ser Asp Lys Asn Lys Thr Tyr Ser Val Glu Tyr Leu
 305 310 315 320
 Pro Lys Val Thr Gly Leu His Lys Val Thr Val Leu Phe Ala Gly Gln
 325 330 335
 His Ile Ser Lys Ser Pro Phe Glu Val Ser Val Asp Lys Ala Gln Gly
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 Asp Ala Ser Lys Val Thr Ala Lys Gly Pro Gly Leu Glu Ala Val Gly
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 Asn Ile Ala Asn Lys Pro Thr Tyr Phe Asp Ile Tyr Thr Ala Gly Ala
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 Gly Val Gly Asp Ile Gly Val Glu Val Glu Asp Pro Gln Gly Lys Asn
 385 390 395 400
 Thr Val Glu Leu Leu Val Glu Asp Lys Gly Asn Gln Val Tyr Arg Cys
 405 410 415
 Val Tyr Lys Pro Met Gln Pro Gly Pro His Val Val Lys Ile Phe Phe
 420 425 430
 Ala Gly Asp Thr Ile Pro Lys Ser Pro Phe Val Val Gln Val Gly Glu
 435 440 445
 Ala Cys Asn Pro Asn Ala Cys Arg Ala Ser Gly Arg Gly Leu Gln Pro
 450 455 460
 Lys Gly Val Arg Ile Arg Glu Thr Thr Asp Phe Lys Val Asp Thr Lys
 465 470 475 480
 Ala Ala Gly Ser Gly Glu Leu Gly Val Thr Met Lys Gly Pro Lys Gly
 485 490 495
 Leu Glu Glu Leu Val Lys Gln Lys Asp Phe Leu Asp Gly Val Tyr Ala
 500 505 510
 Phe Glu Tyr Tyr Pro Ser Thr Pro Gly Arg Tyr Ser Ile Ala Ile Thr
 515 520 525
 Trp Gly Gly His His Ile Pro Lys Ser Pro Phe Glu Val Gln Val Gly
 530 535 540

SeqLst

Pro Glu Ala Gly Met Gln Lys Val Arg Ala Trp Gly Pro Gly Leu His
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 Gly Gly Ile Val Gly Arg Ser Ala Asp Phe Val Val Glu Ser Ile Gly
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 Ser Glu Val Gly Ser Leu Gly Phe Ala Ile Glu Gly Pro Ser Gln Ala
 580 585 590
 Lys Ile Glu Tyr Asn Asp Gln Asn Asp Gly Ser Cys Asp Val Lys Tyr
 595 600 605
 Trp Pro Lys Glu Pro Gly Glu Tyr Ala Val His Ile Met Cys Asp Asp
 610 615 620
 Glu Asp Ile Lys Asp Ser Pro Tyr Met Ala Phe Ile His Pro Ala Thr
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 Gly Gly Tyr Asn Pro Asp Leu Val Arg Ala Tyr Gly Pro Gly Leu Glu
 645 650 655
 Lys Ser Gly Cys Ile Val Asn Asn Leu Ala Glu Phe Thr Val Asp Pro
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 Lys Asp Ala Gly Lys Ala Pro Leu Lys Ile Phe Ala Gln Asp Gly Glu
 675 680 685
 Gly Gln Arg Ile Asp Ile Gln Met Lys Asn Arg Met Asp Gly Thr Tyr
 690 695 700
 Ala Cys Ser Tyr Thr Pro Val Lys Ala Ile Lys His Thr Ile Ala Val
 705 710 715 720
 Val Trp Gly Gly Val Asn Ile Pro His Ser Pro Tyr Arg Val Asn Ile
 725 730 735
 Gly Gln Gly Ser His Pro Gln Lys Val Lys Val Phe Gly Pro Gly Val
 740 745 750
 Glu Arg Ser Gly Leu Lys Ala Asn Glu Pro Thr His Phe Thr Val Asp
 755 760 765
 Cys Thr Glu Ala Gly Glu Gly Asp Val Ser Val Gly Ile Lys Cys Asp
 770 775 780
 Ala Arg Val Leu Ser Glu Asp Glu Glu Asp Val Asp Phe Asp Ile Ile
 785 790 795 800
 His Asn Ala Asn Asp Thr Phe Thr Val Lys Tyr Val Pro Pro Ala Ala
 805 810 815

SeqLst

Gly Arg Tyr Thr Ile Lys Val Leu Phe Ala Ser Gln Glu Ile Pro Ala
 820 825 830
 Ser Pro Phe Arg Val Lys Val Asp Pro Ser His Asp Ala Ser Lys Val
 835 840 845
 Lys Ala Glu Gly Pro Gly Leu Ser Lys Ala Gly Val Glu Asn Gly Lys
 850 855 860
 Pro Thr His Phe Thr Val Tyr Thr Lys Gly Ala Gly Lys Ala Pro Leu
 865 870 875 880
 Asn Val Gln Phe Asn Ser Pro Leu Pro Gly Asp Ala Val Lys Asp Leu
 885 890 895
 Asp Ile Ile Asp Asn Tyr Asp Tyr Ser His Thr Val Lys Tyr Thr Pro
 900 905 910
 Thr Gln Gln Gly Asn Met Gln Val Leu Val Thr Tyr Gly Gly Asp Pro
 915 920 925
 Ile Pro Lys Ser Pro Phe Thr Val Gly Val Ala Ala Pro Leu Asp Leu
 930 935 940
 Ser Lys Ile Lys Leu Asn Gly Leu Glu Asn Arg Val Glu Val Gly Lys
 945 950 955 960
 Asp Gln Glu Phe Thr Val Asp Thr Arg Gly Ala Gly Gly Gln Gly Lys
 965 970 975
 Leu Asp Val Thr Ile Leu Ser Pro Ser Arg Lys Val Val Pro Cys Leu
 980 985 990
 Val Thr Pro Val Thr Gly Arg Glu Asn Ser Thr Ala Lys Phe Ile Pro
 995 1000 1005
 Arg Glu Glu Gly Leu Tyr Ala Val Asp Val Thr Tyr Asp Gly His
 1010 1015 1020
 Pro Val Pro Gly Ser Pro Tyr Thr Val Glu Ala Ser Leu Pro Pro
 1025 1030 1035
 Asp Pro Ser Lys Val Lys Ala His Gly Pro Gly Leu Glu Gly Gly
 1040 1045 1050
 Leu Val Gly Lys Pro Ala Glu Phe Thr Ile Asp Thr Lys Gly Ala
 1055 1060 1065
 Gly Thr Gly Gly Leu Gly Leu Thr Val Glu Gly Pro Cys Glu Ala
 1070 1075 1080

SeqLst

Lys Ile Glu Cys Ser Asp Asn Gly Asp Gly Thr Cys Ser Val Ser
 1085 1090 1095
 Tyr Leu Pro Thr Lys Pro Gly Glu Tyr Phe Val Asn Ile Leu Phe
 1100 1105 1110
 Glu Glu Val His Ile Pro Gly Ser Pro Phe Lys Ala Asp Ile Glu
 1115 1120 1125
 Met Pro Phe Asp Pro Ser Lys Val Val Ala Ser Gly Pro Gly Leu
 1130 1135 1140
 Glu His Gly Lys Val Gly Glu Ala Gly Leu Leu Ser Val Asp Cys
 1145 1150 1155
 Ser Glu Ala Gly Pro Gly Ala Leu Gly Leu Glu Ala Val Ser Asp
 1160 1165 1170
 Ser Gly Thr Lys Ala Glu Val Ser Ile Gln Asn Asn Lys Asp Gly
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 Thr Tyr Ala Val Thr Tyr Val Pro Leu Thr Ala Gly Met Tyr Thr
 1190 1195 1200
 Leu Thr Met Lys Tyr Gly Gly Glu Leu Val Pro His Phe Pro Ala
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 Arg Val Lys Val Glu Pro Ala Val Asp Thr Ser Arg Ile Lys Val
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 Phe Gly Pro Gly Ile Glu Gly Lys Asp Val Phe Arg Glu Ala Thr
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 1250 1255 1260
 Asp His Ile Lys Ala His Ile Ala Asn Pro Ser Gly Ala Ser Thr
 1265 1270 1275
 Glu Cys Phe Val Thr Asp Asn Ala Asp Gly Thr Tyr Gln Val Glu
 1280 1285 1290
 Tyr Thr Pro Phe Glu Lys Gly Leu His Val Val Glu Val Thr Tyr
 1295 1300 1305
 Asp Asp Val Pro Ile Pro Asn Ser Pro Phe Lys Val Ala Val Thr
 1310 1315 1320
 Glu Gly Cys Gln Pro Ser Arg Val Gln Ala Gln Gly Pro Gly Leu
 1325 1330 1335

SeqLst

Lys Glu Ala Phe Thr Asn Lys Pro Asn Val Phe Thr Val Val Thr
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 Arg Gly Ala Gly Ile Gly Gly Leu Gly Ile Thr Val Glu Gly Pro
 1355 1360 1365
 Ser Glu Ser Lys Ile Asn Cys Arg Asp Asn Lys Asp Gly Ser Cys
 1370 1375 1380
 Ser Ala Glu Tyr Ile Pro Phe Ala Pro Gly Asp Tyr Asp Val Asn
 1385 1390 1395
 Ile Thr Tyr Gly Gly Ala His Ile Pro Gly Ser Pro Phe Arg Val
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 Pro Val Lys Asp Val Val Asp Pro Ser Lys Val Lys Ile Ala Gly
 1415 1420 1425
 Pro Gly Leu Gly Ser Gly Val Arg Ala Arg Val Leu Gln Ser Phe
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 Thr Val Asp Ser Ser Lys Ala Gly Leu Ala Pro Leu Glu Val Arg
 1445 1450 1455
 Val Leu Gly Pro Arg Gly Leu Val Glu Pro Val Asn Val Val Asp
 1460 1465 1470
 Asn Gly Asp Gly Thr His Thr Val Thr Tyr Thr Pro Ser Gln Glu
 1475 1480 1485
 Gly Pro Tyr Met Val Ser Val Lys Tyr Ala Asp Glu Glu Ile Pro
 1490 1495 1500
 Arg Ser Pro Phe Lys Val Lys Val Leu Pro Thr Tyr Asp Ala Ser
 1505 1510 1515
 Lys Val Thr Ala Ser Gly Pro Gly Leu Ser Ser Tyr Gly Val Pro
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 Ala Ser Leu Pro Val Asp Phe Ala Ile Asp Ala Arg Asp Ala Gly
 1535 1540 1545
 Glu Gly Leu Leu Ala Val Gln Ile Thr Asp Gln Glu Gly Lys Pro
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 Lys Arg Ala Ile Val His Asp Asn Lys Asp Gly Thr Tyr Ala Val
 1565 1570 1575
 Thr Tyr Ile Pro Asp Lys Thr Gly Arg Tyr Met Ile Gly Val Thr
 1580 1585 1590

SeqLst

Tyr Gly Gly Asp Asp Ile Pro Leu Ser Pro Tyr Arg Ile Arg Ala
 1595 1600 1605
 Thr Gln Thr Gly Asp Ala Ser Lys Cys Leu Ala Thr Gly Pro Gly
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 Ile Ala Ser Thr Val Lys Thr Gly Glu Glu Val Gly Phe Val Val
 1625 1630 1635
 Asp Ala Lys Thr Ala Gly Lys Gly Lys Val Thr Cys Thr Val Leu
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 Thr Pro Asp Gly Thr Glu Ala Glu Ala Asp Val Ile Glu Asn Glu
 1655 1660 1665
 Asp Gly Thr Tyr Asp Ile Phe Tyr Thr Ala Ala Lys Pro Gly Thr
 1670 1675 1680
 Tyr Val Ile Tyr Val Arg Phe Gly Gly Val Asp Ile Pro Asn Ser
 1685 1690 1695
 Pro Phe Thr Val Met Ala Thr Asp Gly Glu Val Thr Ala Val Glu
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 Glu Ala Pro Val Asn Ala Cys Pro Pro Gly Phe Arg Pro Trp Val
 1715 1720 1725
 Thr Glu Glu Ala Tyr Val Pro Val Ser Asp Met Asn Gly Leu Gly
 1730 1735 1740
 Phe Lys Pro Phe Asp Leu Val Ile Pro Phe Ala Val Arg Lys Gly
 1745 1750 1755
 Glu Ile Thr Gly Glu Val His Met Pro Ser Gly Lys Thr Ala Thr
 1760 1765 1770
 Pro Glu Ile Val Asp Asn Lys Asp Gly Thr Val Thr Val Arg Tyr
 1775 1780 1785
 Ala Pro Thr Glu Val Gly Leu His Glu Met His Ile Lys Tyr Met
 1790 1795 1800
 Gly Ser His Ile Pro Glu Ser Pro Leu Gln Phe Tyr Val Asn Tyr
 1805 1810 1815
 Pro Asn Ser Gly Ser Val Ser Ala Tyr Gly Pro Gly Leu Val Tyr
 1820 1825 1830
 Gly Val Ala Asn Lys Thr Ala Thr Phe Thr Ile Val Thr Glu Asp
 1835 1840 1845

SeqLst

Ala Gly 1850 Glu Gly Gly Leu Asp 1855 Leu Ala Ile Glu Gly 1860 Pro Ser Lys
 Ala Glu 1865 Ile Ser Cys Ile Asp 1870 Asn Lys Asp Gly Thr 1875 Cys Thr Val
 Thr Tyr 1880 Leu Pro Thr Leu Pro 1885 Gly Asp Tyr Ser Ile 1890 Leu Val Lys
 Tyr Asn 1895 Asp Lys His Ile Pro 1900 Gly Ser Pro Phe Thr 1905 Ala Lys Ile
 Thr Asp 1910 Asp Ser Arg Arg Cys 1915 Ser Gln Val Lys Leu 1920 Gly Ser Ala
 Ala Asp 1925 Phe Leu Leu Asp Ile 1930 Ser Glu Thr Asp Leu 1935 Ser Ser Leu
 Thr Ala 1940 Ser Ile Lys Ala Pro 1945 Ser Gly Arg Asp Glu 1950 Pro Cys Leu
 Leu Lys 1955 Arg Leu Pro Asn Asn 1960 His Ile Gly Ile Ser 1965 Phe Ile Pro
 Arg Glu 1970 Val Gly Glu His Leu 1975 Val Ser Ile Lys Lys 1980 Asn Gly Asn
 His Val 1985 Ala Asn Ser Pro Val 1990 Ser Ile Met Val Val 1995 Gln Ser Glu
 Ile Gly 2000 Asp Ala Arg Arg Ala 2005 Lys Val Tyr Gly Arg 2010 Gly Leu Ser
 Glu Gly 2015 Arg Thr Phe Glu Met 2020 Ser Asp Phe Ile Val 2025 Asp Thr Arg
 Asp Ala 2030 Gly Tyr Gly Gly Ile 2035 Ser Leu Ala Val Glu 2040 Gly Pro Ser
 Lys Val 2045 Asp Ile Gln Thr Glu 2050 Asp Leu Glu Asp Gly 2055 Thr Cys Lys
 Val Ser 2060 Tyr Phe Pro Thr Val 2065 Pro Gly Val Tyr Ile 2070 Val Ser Thr
 Lys Phe 2075 Ala Asp Glu His Val 2080 Pro Gly Ser Pro Phe 2085 Thr Val Lys
 Ile Ser 2090 Gly Glu Gly Arg Val 2095 Lys Glu Ser Ile Thr 2100 Arg Thr Ser

SeqLst

Arg Ala Pro Ser Val Ala Thr Val Gly Ser Ile Cys Asp Leu Asn
 2105 2110 2115
 Leu Lys Ile Pro Glu Ile Asn Ser Ser Asp Met Ser Ala His Val
 2120 2125 2130
 Thr Ser Pro Ser Gly Arg Val Thr Glu Ala Glu Ile Val Pro Met
 2135 2140 2145
 Gly Lys Asn Ser His Cys Val Arg Phe Val Pro Gln Glu Met Gly
 2150 2155 2160
 Val His Thr Val Ser Val Lys Tyr Arg Gly Gln His Val Thr Gly
 2165 2170 2175
 Ser Pro Phe Gln Phe Thr Val Gly Pro Leu Gly Glu Gly Gly Ala
 2180 2185 2190
 His Lys Val Arg Ala Gly Gly Pro Gly Leu Glu Arg Gly Glu Ala
 2195 2200 2205
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 Gly Gly Leu Ser Ile Ala Val Glu Gly Pro Ser Lys Ala Glu Ile
 2225 2230 2235
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 Ala Gln Glu Pro Gly Asn Tyr Glu Val Ser Ile Lys Phe Asn Asp
 2255 2260 2265
 Glu His Ile Pro Glu Ser Pro Tyr Leu Val Pro Val Ile Ala Pro
 2270 2275 2280
 Ser Asp Asp Ala Arg Arg Leu Thr Val Met Ser Leu Gln Glu Ser
 2285 2290 2295
 Gly Leu Lys Val Asn Gln Pro Ala Ser Phe Ala Ile Arg Leu Asn
 2300 2305 2310
 Gly Ala Lys Gly Lys Ile Asp Ala Lys Val His Ser Pro Ser Gly
 2315 2320 2325
 Ala Val Glu Glu Cys His Val Ser Glu Leu Glu Pro Asp Lys Tyr
 2330 2335 2340
 Ala Val Arg Phe Ile Pro His Glu Asn Gly Val His Thr Ile Asp
 2345 2350 2355

SeqLst

Val Lys Phe Asn Gly Ser His Val Val Gly Ser Pro Phe Lys Val
 2360 2365 2370
 Arg Val Gly Glu Pro Gly Gln Ala Gly Asn Pro Ala Leu Val Ser
 2375 2380 2385
 Ala Tyr Gly Thr Gly Leu Glu Gly Gly Thr Thr Gly Ile Gln Ser
 2390 2395 2400
 Glu Phe Phe Ile Asn Thr Thr Arg Ala Gly Pro Gly Thr Leu Ser
 2405 2410 2415
 Val Thr Ile Glu Gly Pro Ser Lys Val Lys Met Asp Cys Gln Glu
 2420 2425 2430
 Thr Pro Glu Gly Tyr Lys Val Met Tyr Thr Pro Met Ala Pro Gly
 2435 2440 2445
 Asn Tyr Leu Ile Ser Val Lys Tyr Gly Gly Pro Asn His Ile Val
 2450 2455 2460
 Gly Ser Pro Phe Lys Ala Lys Val Thr Gly Gln Arg Leu Val Ser
 2465 2470 2475
 Pro Gly Ser Ala Asn Glu Thr Ser Ser Ile Leu Val Glu Ser Val
 2480 2485 2490
 Thr Arg Ser Ser Thr Glu Thr Cys Tyr Ser Ala Ile Pro Lys Ala
 2495 2500 2505
 Ser Ser Asp Ala Ser Lys Val Thr Ser Lys Gly Ala Gly Leu Ser
 2510 2515 2520
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 2525 2530 2535
 Lys Ala Gly Ser Asn Met Leu Leu Ile Gly Val His Gly Pro Thr
 2540 2545 2550
 Thr Pro Cys Glu Glu Val Ser Met Lys His Val Gly Asn Gln Gln
 2555 2560 2565
 Tyr Asn Val Thr Tyr Val Val Lys Glu Arg Gly Asp Tyr Val Leu
 2570 2575 2580
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SeqLst

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Glu₁₄₅ Phe Thr Leu Phe Val₁₅₀ Tyr Glu Gln Leu Gln₁₅₅ Glu Pro Gln Val₁₆₀ Thr

Met Lys Ser Val₁₆₅ Lys Val Ser Glu Asn Phe₁₇₀ Ser Cys Asn Ile Thr₁₇₅ Leu

Met Cys Ser Val₁₈₀ Lys Gly Ala Glu Lys₁₈₅ Ser Val Leu Tyr Ser₁₉₀ Trp Thr

Pro Arg Glu₁₉₅ Pro His Ala Ser Glu₂₀₀ Ser Asn Gly Gly Ser₂₀₅ Ile Leu Thr

Val Ser₂₁₀ Arg Thr Pro Cys Asp₂₁₅ Pro Asp Leu Pro Tyr₂₂₀ Ile Cys Thr Ala

Gln₂₂₅ Asn Pro Val Ser Gln₂₃₀ Arg Ser Ser Leu Pro Val₂₃₅ His Val Gly Gln₂₄₀

Phe Cys Thr Asp Pro₂₄₅ Gly Ala Ser Arg Gly₂₅₀ Gly Thr Thr Gly Glu₂₅₅ Thr

Val Val Gly Val₂₆₀ Leu Gly Glu Pro Val₂₆₅ Thr Leu Pro Leu Ala₂₇₀ Leu Pro

Ala Cys Arg₂₇₅ Asp Thr Glu Lys Val₂₈₀ Val Trp Leu Phe Asn₂₈₅ Thr Ser Ile

Ile Ser₂₉₀ Lys Glu Arg Glu Glu₂₉₅ Ala Ala Thr Ala Asp₃₀₀ Pro Leu Ile Lys

Ser Arg Asp Pro Tyr Lys₃₁₀ Asn Arg Val Trp Val₃₁₅ Ser Ser Gln Asp Cys₃₂₀

Ser Leu Lys Ile Ser₃₂₅ Gln Leu Lys Ile Glu₃₃₀ Asp Ala Gly Pro Tyr₃₃₅ His

Ala Tyr Val Cys₃₄₀ Ser Glu Ala Ser Ser₃₄₅ Val Thr Ser Met Thr₃₅₀ His Val

Thr Leu Leu₃₅₅ Ile Tyr Arg Arg Leu₃₆₀ Arg Lys Pro Lys Ile₃₆₅ Thr Trp Ser

Leu Arg₃₇₀ His Ser Glu Asp Gly₃₇₅ Ile Cys Arg Ile Ser₃₈₀ Leu Thr Cys Ser

SeqLst

Val Glu Asp Gly Gly Asn Thr Val Met Tyr Thr Trp Thr Pro Leu Gln
385 390 395 400

Lys Glu Ala Val Val Ser Gln Gly Glu Ser His Leu Asn Val Ser Trp
405 410 415

Arg Ser Ser Glu Asn His Pro Asn Leu Thr Cys Thr Ala Ser Asn Pro
420 425 430

Val Ser Arg Ser Ser His Gln Phe Leu Ser Glu Asn Ile Cys Ser Gly
435 440 445

Pro Glu Arg Asn Thr Lys Leu Trp Ile Gly Leu Phe Leu Met Val Cys
450 455 460

Leu Leu Cys Val Gly Ile Phe Ser Trp Cys Ile Trp Lys Arg Lys Gly
465 470 475 480

Arg Cys Ser Val Pro Ala Phe Cys Ser Ser Gln Ala Glu Ala Pro Ala
485 490 495

Asp Thr Pro Gly Tyr Glu Lys Leu Asp Thr Pro Leu Arg Pro Ala Arg
500 505 510

Gln Gln Pro Thr Pro Thr Ser Asp Ser Ser Ser Asp Ser Asn Leu Thr
515 520 525

Thr Glu Glu Asp Glu Asp Arg Pro Glu Val His Lys Pro Ile Ser Gly
530 535 540

Arg Tyr Glu Val Phe Asp Gln Val Thr Gln Glu Gly Ala Gly His Asp
545 550 555 560

Pro Ala Pro Glu Gly Gln Ala Asp Tyr Asp Pro Val Thr Pro Tyr Val
565 570 575

Thr Glu Val Glu Ser Val Val Gly Glu Asn Thr Met Tyr Ala Gln Val
580 585 590

Phe Asn Leu Gln Gly Lys Thr Pro Val Ser Gln Lys Glu Glu Ser Ser
595 600 605

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

SeqLst

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 <213> Homo sapiens

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	SeqLst	
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ccaccacaac agaatgatct tgagattcct gaaagtccta cctatgaaaa tttcacctga		2040
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<210> 34
 <211> 565
 <212> PRT
 <213> Homo sapiens

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65 70 75 80	
Ile Gly Pro Lys Asn Ala Leu Ala Phe Ala Arg Pro Lys Glu Asn Val	
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Thr Ile Met Val Lys Ser Tyr Leu Gly Arg Leu Asp Ile Thr Lys Trp	
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Ser Tyr Ser Leu Cys Ile Ser Asn Leu Thr Leu Asn Asp Ala Gly Ser	
115 120 125	
Tyr Lys Ala Gln Ile Asn Gln Arg Asn Phe Glu Val Thr Thr Glu Glu	
130 135 140	
Glu Phe Thr Leu Phe Val Tyr Glu Gln Leu Gln Glu Pro Gln Val Thr	
145 150 155 160	

SeqLst

Met Lys Ser Val Lys Val Ser Glu Asn Phe Ser Cys Asn Ile Thr Leu
 165 170 175
 Met Cys Ser Val Lys Gly Ala Glu Lys Ser Val Leu Tyr Ser Trp Thr
 180 185 190
 Pro Arg Glu Pro His Ala Ser Glu Ser Asn Gly Gly Ser Ile Leu Thr
 195 200 205
 Val Ser Arg Thr Pro Cys Asp Pro Asp Leu Pro Tyr Ile Cys Thr Ala
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 Gln Asn Pro Val Ser Gln Arg Ser Ser Leu Pro Val His Val Gly Gln
 225 230 235 240
 Phe Cys Thr Asp Pro Gly Ala Ser Arg Gly Gly Thr Thr Gly Glu Thr
 245 250 255
 Val Val Gly Val Leu Gly Glu Pro Val Thr Leu Pro Leu Ala Leu Pro
 260 265 270
 Ala Cys Arg Asp Thr Glu Lys Val Val Trp Leu Phe Asn Thr Ser Ile
 275 280 285
 Ile Ser Lys Glu Arg Glu Glu Ala Ala Thr Ala Asp Pro Leu Ile Lys
 290 295 300
 Ser Arg Asp Pro Tyr Lys Asn Arg Val Trp Val Ser Ser Gln Asp Cys
 305 310 315 320
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 Thr Leu Leu Ile Tyr Arg Pro Glu Arg Asn Thr Lys Leu Trp Ile Gly
 355 360 365
 Leu Phe Leu Met Val Cys Leu Leu Cys Val Gly Ile Phe Ser Trp Cys
 370 375 380
 Ile Trp Lys Arg Lys Gly Arg Cys Ser Val Pro Ala Phe Cys Ser Ser
 385 390 395 400
 Gln Ala Glu Ala Pro Ala Asp Thr Pro Glu Pro Thr Ala Gly His Thr
 405 410 415
 Leu Tyr Ser Val Leu Ser Gln Gly Tyr Glu Lys Leu Asp Thr Pro Leu
 420 425 430

SeqLst

Arg Pro Ala Arg Gln Gln Pro Thr Pro Thr Ser Asp Ser Ser Ser Asp
435 440 445

Ser Asn Leu Thr Thr Glu Glu Asp Glu Asp Arg Pro Glu Val His Lys
450 455 460

Pro Ile Ser Gly Arg Tyr Glu Val Phe Asp Gln Val Thr Gln Glu Gly
465 470 475 480

Ala Gly His Asp Pro Ala Pro Glu Gly Gln Ala Asp Tyr Asp Pro Val
485 490 495

Thr Pro Tyr Val Thr Glu Val Glu Ser Val Val Gly Glu Asn Thr Met
500 505 510

Tyr Ala Gln Val Phe Asn Leu Gln Gly Lys Thr Pro Val Ser Gln Lys
515 520 525

Glu Glu Ser Ser Ala Thr Ile Tyr Cys Ser Ile Arg Lys Pro Gln Val
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Val Pro Pro Pro Gln Gln Asn Asp Leu Glu Ile Pro Glu Ser Pro Thr
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Tyr Glu Asn Phe Thr
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<211> 2280
<212> DNA
<213> Homo sapiens

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SeqLst

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 <211> 655
 <212> PRT
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 20 25 30

Gln Thr Ser Leu Leu Phe Leu Leu Met Gly Leu Arg Ala Ser Gly Lys
 35 40 45

SeqLst

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

SeqLst

Ser Leu Lys Ile Ser Gln Leu Lys Ile Glu Asp Ala Gly Pro Tyr His
 325 330 335
 Ala Tyr Val Cys Ser Glu Ala Ser Ser Val Thr Ser Met Thr His Val
 340 345 350
 Thr Leu Leu Ile Tyr Arg Arg Leu Arg Lys Pro Lys Ile Thr Trp Ser
 355 360 365
 Leu Arg His Ser Glu Asp Gly Ile Cys Arg Ile Ser Leu Thr Cys Ser
 370 375 380
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 385 390 395 400
 Lys Glu Ala Val Val Ser Gln Gly Glu Ser His Leu Asn Val Ser Trp
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 Pro Glu Arg Asn Thr Lys Leu Trp Ile Gly Leu Phe Leu Met Val Cys
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 Arg Cys Ser Val Pro Ala Phe Cys Ser Ser Gln Ala Glu Ala Pro Ala
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 Gln Gly Tyr Glu Lys Leu Asp Thr Pro Leu Arg Pro Ala Arg Gln Gln
 515 520 525
 Pro Thr Pro Thr Ser Asp Ser Ser Ser Asp Ser Asn Leu Thr Thr Glu
 530 535 540
 Glu Asp Glu Asp Arg Pro Glu Val His Lys Pro Ile Ser Gly Arg Tyr
 545 550 555 560
 Glu Val Phe Asp Gln Val Thr Gln Glu Gly Ala Gly His Asp Pro Ala
 565 570 575
 Pro Glu Gly Gln Ala Asp Tyr Asp Pro Val Thr Pro Tyr Val Thr Glu
 580 585 590

SeqLst

Val Glu Ser Val Val Gly Glu Asn Thr Met Tyr Ala Gln Val Phe Asn
595 600 605

Leu Gln Gly Lys Thr Pro Val Ser Gln Lys Glu Glu Ser Ser Ala Thr
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Ile Tyr Cys Ser Ile Arg Lys Pro Gln Val Val Pro Pro Pro Gln Gln
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<212> DNA

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Lys His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala	
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Val Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala	
50 55 60	
His Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu	
65 70 75 80	

SeqLst

Phe His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe
85 90 95

Pro His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg
100 105 110

Pro Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu
115 120 125

Pro Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln
130 135 140

Glu Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile
145 150 155 160

Glu Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu
165 170 175

His Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val
180 185 190

Thr Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Thr
195 200 205

Cys Ser Trp Val Ile Leu Ile Thr Glu Leu Thr Met Pro Ala Leu Pro
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Met Val Leu His Gly Ser Leu Val Pro Trp Arg Gly Gly Val
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<210> 39

<211> 1906

<212> DNA

<213> Homo sapiens

<400> 39

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gaggctggga gtgcgagaag cattcccaac cctggcaggt gcttgtggcc tctcgtggca 180

gggcagtctg cggcggtggt ctggtgcacc cccagtgggt cctcacagct gccactgca 240

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gccaggtatt tcaggctcagc cacagcttcc cacaccgct ctacgatatg agcctcctga 360

agaatcgatt cctcaggcca ggtgatgact ccagccacga cctcatgctg ctccgcctgt 420

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cactggggac cacctgctac gcctcaggct ggggcagcat tgaaccagag gaggctctga 540

cccaaagaa acttcagtgt gtggacctcc atgttatttc caatgacgtg tgtgcgcaag 600

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SeqLst

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<210> 40
<211> 218
<212> PRT
<213> Homo sapiens

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Ala Ala Pro Leu Ile Leu Ser Arg Ile Val Gly Gly Trp Glu Cys Glu
          20          25          30

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```

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

```

```

Val Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala
          50          55          60

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His Cys Ile Arg Lys Pro Gly Asp Asp Ser Ser His Asp Leu Met Leu
65          70          75          80

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SeqLst

Leu Arg Leu Ser Glu Pro Ala Glu Leu Thr Asp Ala Val Lys Val Met
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 Asp Leu Pro Thr Gln Glu Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser
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 Gly Trp Gly Ser Ile Glu Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu
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 Gln Cys Val Asp Leu His Val Ile Ser Asn Asp Val Cys Ala Gln Val
 130 135 140
 His Pro Gln Lys Val Thr Lys Phe Met Leu Cys Ala Gly Arg Trp Thr
 145 150 155 160
 Gly Gly Lys Ser Thr Cys Ser Gly Asp Ser Gly Gly Pro Leu Val Cys
 165 170 175
 Asn Gly Val Leu Gln Gly Ile Thr Ser Trp Gly Ser Glu Pro Cys Ala
 180 185 190
 Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val Val His Tyr Arg Lys
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 Trp Ile Lys Asp Thr Ile Val Ala Asn Pro
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<210> 41
 <211> 1335
 <212> DNA
 <213> Homo sapiens

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tggccatgcc tggagacata tcaactcaatt tctctgagga cacagatagg atgggggtgtc		960
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<210> 42
 <211> 69
 <212> PRT
 <213> Homo sapiens

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20 25 30	
Lys His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala	
35 40 45	
Val Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala	
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His Cys Ile Arg Lys	
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<210> 43
 <211> 555
 <212> DNA
 <213> Homo sapiens

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SeqLst

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<210> 44
 <211> 261
 <212> PRT
 <213> Homo sapiens

<400> 44
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 35 40 45

Val Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala
 50 55 60

His Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu
 65 70 75 80

Phe His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe
 85 90 95

Pro His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg
 100 105 110

Pro Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu
 115 120 125

Pro Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln
 130 135 140

Glu Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile
 145 150 155 160

Glu Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu
 165 170 175

His Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val
 180 185 190

Thr Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Thr
 195 200 205

Cys Ser Gly Asp Ser Gly Gly Pro Leu Val Cys Asn Gly Val Leu Gln
 210 215 220

SeqLst

Gly Ile Thr Ser Trp Gly Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro
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Ser Leu Tyr Thr Lys Val Val His Tyr Arg Lys Trp Ile Lys Asp Thr
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Ile Val Ala Asn Pro
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<210> 45
 <211> 1464
 <212> DNA
 <213> Homo sapiens

<400> 45
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SeqLst

1464