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<212> PRT

<213> mammalian

<400> 1

Gly Arg Gly Asp Ser
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<210> 2

<211> 391

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Met Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp
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Thr Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile
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Thr Gly Tyr Arg Ile Thr Thr Thr Pro Thr Asn Gly Gln Gln Gly Asn
35 40 45

Ser Leu Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp
50 55 60

Asn Leu Ser Pro Gly Leu Glu Tyr Asn Val Ser Val Tyr Thr Val Lys
65 70 75 80

Asp Asp Lys Glu Ser Val Pro Ile Ser Asp Thr Ile Ile Pro Ala Val
85 90 95

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Pro Pro Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro Asp Thr Met
 100 105 110

Arg Val Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn Phe Leu
 115 120 125

Val Arg Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala Glu Leu Ser
 130 135 140

Ile Ser Pro Ser Asp Asn Ala Val Val Leu Thr Asn Leu Leu Pro Gly
 145 150 155 160

Thr Glu Tyr Val Val Ser Val Ser Ser Val Tyr Glu Gln His Glu Ser
 165 170 175

Thr Pro Leu Arg Gly Arg Gln Lys Thr Gly Leu Asp Ser Pro Thr Gly
 180 185 190

Ile Asp Phe Ser Asp Ile Thr Ala Asn Ser Phe Thr Val His Trp Ile
 195 200 205

Ala Pro Arg Ala Thr Ile Thr Gly Tyr Arg Ile Arg His His Pro Glu
 210 215 220

His Phe Ser Gly Arg Pro Arg Glu Asp Arg Val Pro His Ser Arg Asn
 225 230 235 240

Ser Ile Thr Leu Thr Asn Leu Thr Pro Gly Thr Glu Tyr Val Val Ser
 245 250 255

Ile Val Ala Leu Asn Gly Arg Glu Glu Ser Pro Leu Leu Ile Gly Gln
 260 265 270

Gln Ser Thr Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala
 275 280 285

Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val
 290 295 300

Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val
 305 310 315 320

Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly

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325

330

335

Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly
340 345 350

Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg
355 360 365

Thr Ser Asp Pro Asn Ser Ser Ser Val Asp Lys Leu Ala Ala Ala Leu
370 375 380

Glu His His His His His His
385 390

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Met Asp Gln Glu Ser Cys Lys Gly Arg Cys Thr Glu Gly Phe Asn Val
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Asp Lys Lys Cys Gln Cys Asp Glu Leu Cys Ser Tyr Tyr Gln Ser Cys
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Cys Thr Asp Tyr Thr Ala Glu Cys Lys Pro Gln Val Thr Arg Gly Asp
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Val Phe Thr Met Leu Glu His His His His His His
50 55 60

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Met Ser Asp Lys Ile Ile His Leu Thr Asp Asp Ser Phe Asp Thr Asp
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Val Leu Lys Ala Asp Gly Ala Ile Leu Val Asp Phe Trp Ala Glu Trp
20 25 30

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Cys Gly Pro Cys Lys Met Ile Ala Pro Ile Leu Asp Glu Ile Ala Asp
35 40 45

Glu Tyr Gln Gly Lys Leu Thr Val Ala Lys Leu Asn Ile Asp Gln Asn
50 55 60

Pro Gly Thr Ala Pro Lys Tyr Gly Ile Arg Gly Ile Pro Thr Leu Leu
65 70 75 80

Leu Phe Lys Asn Gly Glu Val Ala Ala Thr Lys Val Gly Ala Leu Ser
85 90 95

Lys Gly Gln Leu Lys Glu Phe Leu Asp Ala Asn Leu Ala Gly Ser Gly
100 105 110

Ser Gly Ser Asp Pro Met Val Ser Lys Gly Glu Glu Leu Phe Thr Gly
115 120 125

Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val Asn Gly His Lys
130 135 140

Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu
145 150 155 160

Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro
165 170 175

Thr Leu Val Thr Thr Leu Thr Tyr Gly Val Gln Cys Phe Ser Arg Tyr
180 185 190

Pro Asp His Met Lys Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu
195 200 205

Gly Tyr Val Gln Glu Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr
210 215 220

Lys Thr Arg Ala Glu Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg
225 230 235 240

Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly
245 250 255

His Lys Leu Glu Tyr Asn Tyr Asn Ser His Asn Val Tyr Ile Met Ala

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260 265 270

Asp Lys Gln Lys Asn Gly Ile Lys Val Asn Phe Lys Ile Arg His Asn
275 280 285

Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln Asn Thr
290 295 300

Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr Leu Ser
305 310 315 320

Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His Met
325 330 335

Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr Leu Gly Met Asp
340 345 350

Glu Leu Tyr Lys Lys Leu Ala Ala Gly Ser Gly Ser Gly Tyr Asp Pro
355 360 365

Glu Gly Ser Gly Ser Gly His His His His His His
370 375 380

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Met Ser Asp Lys Ile Ile His Leu Thr Asp Asp Ser Phe Asp Thr Asp
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Val Leu Lys Ala Asp Gly Ala Ile Leu Val Asp Phe Trp Ala Glu Trp
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Cys Gly Pro Cys Lys Met Ile Ala Pro Ile Leu Asp Glu Ile Ala Asp
35 40 45

Glu Tyr Gln Gly Lys Leu Thr Val Ala Lys Leu Asn Ile Asp Gln Asn
50 55 60

Pro Gly Thr Ala Pro Lys Tyr Gly Ile Arg Gly Ile Pro Thr Leu Leu
65 70 75 80

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Leu Phe Lys Asn Gly Glu Val Ala Ala Thr Lys Val Gly Ala Leu Ser
85 90 95

Lys Gly Gln Leu Lys Glu Phe Leu Asp Ala Asn Leu Ala Gly Ser Gly
100 105 110

Ser Gly Ser Asp Pro Met Val Ser Lys Gly Glu Glu Asp Asn Met Ala
115 120 125

Ile Ile Lys Glu Phe Met Arg Phe Lys Val His Met Glu Gly Ser Val
130 135 140

Asn Gly His Glu Phe Glu Ile Glu Gly Glu Gly Glu Gly Arg Pro Tyr
145 150 155 160

Glu Gly Thr Gln Thr Ala Lys Leu Lys Val Thr Lys Gly Gly Pro Leu
165 170 175

Pro Phe Ala Trp Asp Ile Leu Ser Pro Gln Phe Met Tyr Gly Ser Lys
180 185 190

Ala Tyr Val Lys His Pro Ala Asp Ile Pro Asp Tyr Leu Lys Leu Ser
195 200 205

Phe Pro Glu Gly Phe Lys Trp Glu Arg Val Met Asn Phe Glu Asp Gly
210 215 220

Gly Val Val Thr Val Thr Gln Asp Ser Ser Leu Gln Asp Gly Glu Phe
225 230 235 240

Ile Tyr Lys Val Lys Leu Arg Gly Thr Asn Phe Pro Ser Asp Gly Pro
245 250 255

Val Met Gln Lys Lys Thr Met Gly Trp Glu Ala Ser Ser Glu Arg Met
260 265 270

Tyr Pro Glu Asp Gly Ala Leu Lys Gly Glu Ile Lys Gln Arg Leu Lys
275 280 285

Leu Lys Asp Gly Gly His Tyr Asp Ala Glu Val Lys Thr Thr Tyr Lys
290 295 300

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Ala Lys Lys Pro Val Gln Leu Pro Gly Ala Tyr Asn Val Asn Ile Lys
305 310 315 320

Leu Asp Ile Thr Ser His Asn Glu Asp Tyr Thr Ile Val Glu Gln Tyr
325 330 335

Glu Arg Ala Glu Gly Arg His Ser Thr Gly Gly Met Asp Glu Leu Tyr
340 345 350

Lys Lys Leu Ala Ala Gly Ser Gly Ser Gly Tyr Asp Pro Glu Gly Ser
355 360 365

Gly Ser Gly His His His His His His
370 375

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ggaggagctg gaagc
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caaaggcaaa caaccactt
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<210> 9
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tctgctggag gctgaggtat
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tccccctgttg actggtcatt

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