

32584_10108w001_SequenceListing
SEQUENCE LISTING

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47 GENE

<130> 32584 (10108w001)

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<150> 62/087,992

<151> 2014-12-05

<160> 36

<170> PatentIn version 3.5

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32584_10108W001_SequenceListing

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32584_10108W001_SequenceListing

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130 135 140

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32584_10108w001_SequenceListing

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Cys Ile Met Ala Cys Glu Pro Val His Gly Pro Leu Leu Ile Ser Gly

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Gln Ser Thr Glu Glu Met Phe Val Lys Trp Lys Leu Asn Lys Ser Tyr
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Ile Phe Ile Tyr Asp Gly Asn Lys Asn Ser Thr Thr Thr Asp Gln Asn
65 70 75 80

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

Ser Leu Lys Met Asp Lys Arg Asp Ala Met Val Gly Asn Tyr Thr Cys
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Glu Val Thr Glu Leu Ser Arg Glu Gly Lys Thr Val Ile Glu Leu Lys
115 120 125

Asn Arg Thr Ala Phe Asn Thr Asp Gln Gly Ser Ala Cys Ser Tyr Glu
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32584_10108w001_SequenceListing

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195 200 205

Val Val Val Gly Ala Ile Leu Leu Ile Pro Gly Glu Lys Pro Val Lys
210 215 220

Asn Ala Ser Gly Leu Gly Leu Ile Val Ile Ser Thr Gly Ile Leu Ile
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Leu Leu Gln Tyr Asn Val Phe Met Thr Ala Phe Gly Met Thr Ser Phe
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Thr Ile Ala Ile Leu Ile Thr Gln Val Leu Gly Tyr Val Leu Ala Leu
260 265 270

Val Gly Leu Cys Leu Cys Ile Met Ala Cys Glu Pro Val His Gly Pro
275 280 285

32584_10108w001_SequenceListing

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Cys Asn Glu Thr Val Val Ile Pro Cys Ile Val Arg Asn Val Glu Ala

35 40 45

Gln Ser Thr Glu Glu Met Phe Val Lys Trp Lys Leu Asn Lys Ser Tyr

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Ile Phe Ile Tyr Asp Gly Asn Lys Asn Ser Thr Thr Thr Asp Gln Asn

65 70 75 80

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Ser Leu Lys Met Asp Lys Arg Asp Ala Met Val Gly Asn Tyr Thr Cys

32584_10108w001_SequenceListing

100

105

110

Glu Val Thr Glu Leu Ser Arg Glu Gly Lys Thr Val Ile Glu Leu Lys

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120

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140

Ile Phe Pro Ile Leu Ala Ile Leu Leu Phe Trp Gly Lys Phe Gly Ile

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160

Leu Thr Leu Lys Tyr Lys Ser Ser His Thr Asn Lys Arg Ile Ile Leu

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170

175

Leu Leu Val Ala Gly Leu Val Leu Thr Val Ile Val Val Val Gly Ala

180

185

190

Ile Leu Leu Ile Pro Gly Glu Lys Pro Val Lys Asn Ala Ser Gly Leu

195

200

205

Gly Leu Ile Val Ile Ser Thr Gly Ile Leu Ile Leu Leu Gln Tyr Asn

210

215

220

Val Phe Met Thr Ala Phe Gly Met Thr Ser Phe Thr Ile Ala Ile Leu

225

230

235

240

32584_10108w001_SequenceListing

Ile Thr Gln Val Leu Gly Tyr Val Leu Ala Leu Val Gly Leu Cys Leu
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260 265 270

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275 280 285

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290 295 300

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Glu

<210> 9

<211> 5021

<212> DNA

<213> Homo sapiens

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<212> PRT

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Cys Asn Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala
35 40 45

Gln Asn Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp
50 55 60

Ile Tyr Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp
65 70 75 80

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

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
100 105 110

Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
115 120 125

32584_10108w001_SequenceListing

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu
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Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe
 145 150 155 160

Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
 165 170 175

Ile Ala Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val
 180 185 190

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr
 195 200 205

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His
 210 215 220

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala
 225 230 235 240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu
 245 250 255

Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile
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32584_10108w001_SequenceListing

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr
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Met Lys Phe Val Glu
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<212> PRT

<213> Homo sapiens

<400> 12

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32584_10108W001_SequenceListing

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Cys Asn Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala
35 40 45

Gln Asn Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp
50 55 60

Ile Tyr Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp
65 70 75 80

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

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
100 105 110

Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
115 120 125

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu
130 135 140

Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe

32584_10108w001_SequenceListing

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Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
165 170 175

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180 185 190

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr
195 200 205

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His
210 215 220

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala
225 230 235 240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu
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Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile
260 265 270

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr
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32584_10108W001_SequenceListing

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Asn
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<210> 13
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aaggtttttt tttttatatg tattaaatca atttatcact gtttaaagct ttgaatatct	4980
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<211> 312

<212> PRT

<213> Homo sapiens

<400> 14

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			20					25					30		

Cys	Asn	Asp	Thr	Val	Val	Ile	Pro	Cys	Phe	Val	Thr	Asn	Met	Glu	Ala
			35					40					45		

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Ile Tyr Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp
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 85 90 95

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
 100 105 110

Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
 115 120 125

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu
 130 135 140

Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe
 145 150 155 160

Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
 165 170 175

Ile Ala Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val
 180 185 190

32584_10108w001_SequenceListing

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr
 195 200 205

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His
 210 215 220

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala
 225 230 235 240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu
 245 250 255

Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile
 260 265 270

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr
 275 280 285

Met Lys Phe Val Ala Ser Asn Gln Lys Thr Ile Gln Pro Pro Arg Lys
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Ala Val Glu Glu Pro Leu Asn Glu
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<212> DNA

<213> Homo sapiens

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<211> 323

<212> PRT

<213> Homo sapiens

<400> 16

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20	25	30
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Cys Asn Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala

35	40	45
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 85 90 95

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
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Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
 115 120 125

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu
 130 135 140

Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe
 145 150 155 160

Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
 165 170 175

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180

185

190

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr

195

200

205

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His

210

215

220

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala

225

230

235

240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu

245

250

255

Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile

260

265

270

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr

275

280

285

Met Lys Phe Val Ala Ser Asn Gln Lys Thr Ile Gln Pro Pro Arg Lys

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300

Ala Val Glu Glu Pro Leu Asn Ala Phe Lys Glu Ser Lys Gly Met Met

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315

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32584_10108w001_SequenceListing

Asn Asp Glu

<210> 17

<211> 293

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 17

Met Trp Pro Leu Ala Ala Ala Leu Leu Leu Gly Ser Cys Cys Cys Gly
1 5 10 15

Ser Ala Gln Leu Leu Phe Asn Lys Thr Lys Ser Val Glu Phe Thr Phe
20 25 30

Cys Asn Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala
35 40 45

Gln Asn Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp
50 55 60

Ile Tyr Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp
65 70 75 80

32584_10108w001_SequenceListing

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

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
100 105 110

Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
115 120 125

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu
130 135 140

Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe
145 150 155 160

Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
165 170 175

Ile Ala Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val
180 185 190

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr
195 200 205

32584_10108w001_SequenceListing

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His
 210 215 220

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala
 225 230 235 240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu
 245 250 255

Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile
 260 265 270

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr
 275 280 285

Met Lys Phe Val Glu
 290

<210> 18

<211> 305

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

32584_10108W001_SequenceListing

<400> 18

Met Trp Pro Leu Ala Ala Ala Leu Leu Leu Gly Ser Cys Cys Cys Gly
1 5 10 15

Ser Ala Gln Leu Leu Phe Asn Lys Thr Lys Ser Val Glu Phe Thr Phe
20 25 30

Cys Asn Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala
35 40 45

Gln Asn Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp
50 55 60

Ile Tyr Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp
65 70 75 80

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

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
100 105 110

Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
115 120 125

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu

Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe
145 150 155 160

Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
165 170 175

Ile Ala Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val
180 185 190

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr
195 200 205

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His
210 215 220

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala
225 230 235 240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu
245 250 255

Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile
260 265 270

32584_10108W001_SequenceListing

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr
275 280 285

Met Lys Phe Val Ala Ser Asn Gln Arg Thr Ile Gln Pro Pro Arg Asn
290 295 300

Arg
305

<210> 19

<211> 312

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 19

Met Trp Pro Leu Ala Ala Ala Leu Leu Leu Gly Ser Cys Cys Cys Gly
1 5 10 15

Ser Ala Gln Leu Leu Phe Asn Lys Thr Lys Ser Val Glu Phe Thr Phe
20 25 30

Cys Asn Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala
35 40 45

32584_10108w001_SequenceListing

Gln Asn Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp
 50 55 60

Ile Tyr Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp
 65 70 75 80

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

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
 100 105 110

Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
 115 120 125

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu
 130 135 140

Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe
 145 150 155 160

Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
 165 170 175

32584_10108w001_SequenceListing

Ile Ala Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val
 180 185 190

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr
 195 200 205

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His
 210 215 220

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala
 225 230 235 240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu
 245 250 255

Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile
 260 265 270

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr
 275 280 285

Met Lys Phe Val Ala Ser Asn Gln Arg Thr Ile Gln Pro Pro Arg Lys
 290 295 300

Ala Val Glu Glu Pro Leu Asn Glu
 305 310

32584_10108w001_SequenceListing

<210> 20

<211> 323

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 20

Met	Trp	Pro	Leu	Ala	Ala	Ala	Leu	Leu	Leu	Gly	Ser	Cys	Cys	Cys	Gly
1			5				10							15	

Ser	Ala	Gln	Leu	Leu	Phe	Asn	Lys	Thr	Lys	Ser	Val	Glu	Phe	Thr	Phe
			20				25					30			

Cys	Asn	Asp	Thr	Val	Val	Ile	Pro	Cys	Phe	Val	Thr	Asn	Met	Glu	Ala
			35				40					45			

Gln	Asn	Thr	Thr	Glu	Val	Tyr	Val	Lys	Trp	Lys	Phe	Lys	Gly	Arg	Asp
			50				55				60				

Ile	Tyr	Thr	Phe	Asp	Gly	Ala	Leu	Asn	Lys	Ser	Thr	Val	Pro	Thr	Asp
65					70				75					80	

Phe	Ser	Ser	Ala	Lys	Ile	Glu	Val	Ser	Gln	Leu	Leu	Lys	Gly	Asp	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
100 105 110

Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
115 120 125

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu
130 135 140

Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe
145 150 155 160

Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
165 170 175

Ile Ala Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val
180 185 190

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr
195 200 205

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His
210 215 220

32584_10108W001_SequenceListing

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala
 225 230 235 240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu
 245 250 255

Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile
 260 265 270

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr
 275 280 285

Met Lys Phe Val Ala Ser Asn Gln Arg Thr Ile Gln Pro Pro Arg Lys
 290 295 300

Ala Val Glu Glu Pro Leu Asn Ala Phe Lys Glu Ser Lys Gly Met Met
 305 310 315 320

Asn Asp Glu

<210> 21

<211> 22

<212> DNA

<213> Artificial Sequence

32584_10108w001_SequenceListing

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 21

tgcagaagtc actaggagga at

22

<210> 22

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 22

tcagtcaact tcttctgggt tgtttcc

27

<210> 23

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 23

gtgccagact cactttctat cca

23

<210> 24

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 24

tgctgccaat atacggcttc tg

22

<210> 25

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 25

cagctctcat agccaactat ggtgcc

26

<210> 26

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 26

tcaagcagag cctggttatc tg

22

<210> 27

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 27

gtcgtcattc catgctttgt tac

23

<210> 28

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 28

tggaggcaca aaacactact gaagtatacg

30

<210> 29

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 29

ggacagtgga cttgtttaga gc

22

<210> 30

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 30

ggcttggtgg ctgattgttc t

21

<210> 31

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 31

agcacccaaa ctgatatgcc tgtatttg

28

<210> 32

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 32

tgggaactgg tgtttcaagt cta

23

<210> 33

<211> 158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 33

gcagacatga ttacttcaga gctttcaaag ctagatactg taccttgcat attccaacac 60

gcgatcgcat tttaagattt tccatcctag tggaaagata tgatttgatt catcctattt 120

actttgtata ttaaagtaca gtagaacctg ccactttt 158

<210> 34

<211> 160

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 34

ggatccattt taagtaatag aataggattt ttaattgttc cagtgtttct gtgatagagc 60

tgtcctgcac agacctgttt ctcgagataa cttcgtataa tgtatgctat acgaagttat 120

atgcatggcc tccgcgccgg gttttggcgc ctcccgcggg 160

<210> 35

<211> 160

<212> DNA

<213> Artificial Sequence

32584_10108W001_SequenceListing

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 35

catgtctgga ataacttcgt ataatgtatg ctatacgaag ttatgctagt aactataacg 60

gtcctaaggt agcgactagc attagtatgg aaggtccgct cactgtccag gttcctcttg 120

cggagctctt tgtctctctg gactctgtat acactgcttg 160

<210> 36

<211> 239

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 36

ggatccattt taagtaatag aataggattt ttaattgttc cagtgtttct gtgatagagc 60

tgtcctgcac agacctgttt ctcgagataa cttcgtataa tgtatgctat acgaagttat 120

gctagtaact ataacggtcc taaggtagcg actagcatta gtatggaagg tccgtccact 180

gtccagggtc ctcttgcgga gctctttgtc tctctggact ctgtatacac tgcttgcac 239