

## SEQUENCE LISTING

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<151> 2007-11-05

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Gly Leu Ala Asp Val Ala Val Gly Val  
1 5

<210> 142  
<211> 9  
<212> PRT  
<213> homo sapiens

<400> 142

Leu Leu Ala Glu Val Thr Leu Ala Val  
1 5

<210> 143  
<211> 9  
<212> PRT  
<213> homo sapiens

<400> 143

Leu Leu Trp Ala Gly Ala Leu Ala Val  
1 5

<210> 144  
 <211> 9  
 <212> PRT  
 <213> homo sapiens

<400> 144

Ile Leu Tyr Pro Ile Asn Ile Leu Val  
 1 5

<210> 145  
 <211> 9  
 <212> PRT  
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<400> 145

Glu Leu Leu Asp Val Ser Trp Leu Val  
 1 5

<210> 146  
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 <212> PRT  
 <213> homo sapiens

<400> 146

Gly Ile Leu Gly Phe Val Phe Thr Leu  
 1 5

<210> 147  
 <211> 9  
 <212> PRT  
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<220>  
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<400> 147

Asn Leu Val Pro Met Val Ala Thr Val  
 1 5

<210> 148  
 <211> 11  
 <212> PRT  
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<400> 148

Ala Ser Ser His Gly Asn Gly Tyr Glu Gln Tyr  
 1 5 10

<210> 149  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 149

Ala	Ser	Ser	Trp	Gly	Gln	Lys	Asn	Ile	Gln	Tyr
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<210> 150  
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 <212> PRT  
 <213> Homo sapiens

<400> 150

Ala	Thr	Ala	Pro	Gly	Leu	Ser	Tyr	Glu	Gln	Tyr
1				5					10	

<210> 151  
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<400> 151

Ala	Ser	Ser	Trp	Gly	Arg	Ala	Tyr	Glu	Gln	Tyr
1				5					10	

<210> 152  
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 <212> PRT  
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<400> 152

Ala	Ser	Ser	Ala	Gly	Val	Gly	Tyr	Glu	Gln	Tyr
1				5					10	

<210> 153  
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 <212> PRT  
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<400> 153

Ala	Ser	Ser	Leu	Gly	Ser	Ala	Asn	Thr	Gln	Tyr
1				5					10	

<210> 154  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 154

Ala Ser Ser Pro Gly Leu Thr Tyr Glu Gln Tyr  
1 5 10

<210> 155

<211> 11

<212> PRT

<213> Homo sapiens

<400> 155

Ala Ser Ser Gln Gly Leu Thr Tyr Glu Gln Tyr  
1 5 10

<210> 156

<211> 12

<212> PRT

<213> Homo sapiens

<400> 156

Ala Ser Ser Phe Gly Gly Leu Gly Gln Pro Gln His  
1 5 10

<210> 157

<211> 12

<212> PRT

<213> Homo sapiens

<400> 157

Ala Ser Ser Asp Ser Gly Val Gly Gln Pro Gln His  
1 5 10

<210> 158

<211> 12

<212> PRT

<213> Homo sapiens

<400> 158

Ala Ser Ser Pro Gly Pro Leu Leu Thr Glu Ala Phe  
1 5 10

<210> 159

<211> 12

<212> PRT

<213> Homo sapiens

<400> 159

Ala Ser Ser Leu Gly Thr Gly Gly Arg Gly Tyr Thr

31

1 5 10

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<212> PRT  
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<400> 160

Ala Ser Ser Gln Asp Pro Gly Leu His Gln Pro Gln His  
1 5 10

<210> 161  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 161

Ala Ser Ser Phe Thr Gly Thr Val Asn Tyr Gly Tyr Thr  
1 5 10

<210> 162  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 162

Ala Ser Ser Leu Ala Ser Gly Val Asn Thr Glu Ala Phe  
1 5 10

<210> 163  
<211> 13  
<212> PRT  
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<400> 163

Ala Ser Ser Pro Val Gly Leu Ser Gly Asn Thr Ile Tyr  
1 5 10

<210> 164  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 164

Ala Ser Ser Ser Pro Asn Arg Gln Gly Asp Tyr Gly Tyr Thr  
1 5 10

<210> 165

<211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 165

Ala	Ser	Ile	Ser	Phe	Gln	Arg	Gln	Ala	Pro	Asn	Ser	Pro	Leu	His
1				5					10					15

<210> 166  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 166

Ala	Ser	Ser	Tyr	Leu	Gly	Gln	Pro	Thr	Leu	Asn	Ser	Ala	Asn	Thr	Gly
1				5					10					15	

Glu Leu Phe

<210> 167  
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<220>  
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<220>  
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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

<400> 167

Ala	Ser	Ser	Xaa	Gly	Xaa	Xaa	Xaa	Xaa	Gln	Tyr
1			5						10	

<210> 168  
 <211> 11  
 <212> PRT  
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<220>  
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 <223> Xaa can be any naturally occurring amino acid

<400> 168

Ala Xaa Xaa Xaa Gly Xaa Xaa Tyr Glu Gln Tyr  
 1 5 10

<210> 169  
 <211> 11  
 <212> PRT  
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<220>  
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 receptor

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<400> 169

Ala Ser Ser Xaa Gly Xaa Xaa Tyr Glu Gln Tyr  
 1 5 10

<210> 170  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 170

Ala Ser Ser Leu Gly Asn Arg Ile Gly Glu Leu Phe  
 1 5 10

<210> 171  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 171

Ala Ser Ser Pro Gly Leu Thr Tyr Glu Gln Tyr  
1 5 10

<210> 172

<211> 11

<212> PRT

<213> Homo sapiens

<400> 172

Ala Ser Ser Val Gly Gly Gly Tyr Glu Gln Tyr  
1 5 10

<210> 173

<211> 9

<212> PRT

<213> Homo sapiens

<400> 173

Ala Ser Ser Ile Gly Tyr Glu Gln Phe  
1 5

<210> 174

<211> 11

<212> PRT

<213> Homo sapiens

<400> 174

Ala Ser Ser Leu Gly Gln Thr Tyr Glu Gln Tyr  
1 5 10

<210> 175

<211> 8

<212> PRT

<213> Homo sapiens

<400> 175

Ala Gly Ile Met Asp Ser Asn Tyr  
1 5

<210> 176

<211> 12

<212> PRT

<213> Homo sapiens

<400> 176

Trp Ser Gly Leu Gly Gly Ser Gln Gly Asn Leu Ile  
1 5 10

<210> 177  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 177

Gly Thr Gln Gly Gly Ser Glu Lys Leu Val  
 1 5 10

<210> 178  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 178

Ala Val Val Asn Asp Met Arg  
 1 5

<210> 179  
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 <212> PRT  
 <213> Homo sapiens

<400> 179

Ala Tyr Ala Ser Phe Asp Met Arg  
 1 5

<210> 180  
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 <212> PRT  
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<400> 180

Ala Glu Trp Gly Gln Gly Gly Lys Leu Ile  
 1 5 10

<210> 181  
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<400> 181

Ala Phe Met Pro Gly Ala Gly Ser Tyr Gln Leu Thr  
 1 5 10

<210> 182  
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<212> PRT  
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<400> 182

Ala Val Ser Gly Gly Ser Tyr Ile Pro Thr  
 1 5 10

<210> 183  
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<400> 183

Ala Val Ser Gly Gly Ser Tyr Ile Pro Thr  
 1 5 10

<210> 184  
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 <212> PRT  
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<400> 184

Ala Val Thr Gly Asn Thr Pro Leu Val  
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<210> 185  
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 <212> PRT  
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<400> 185

Ala Ala Leu Asn Arg Asp Asp Lys Ile Ile  
 1 5 10

<210> 186  
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 <212> PRT  
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<400> 186

Ala Phe Pro Tyr Asn Thr Asp Lys Leu Ile  
 1 5 10

<210> 187  
 <211> 15  
 <212> PRT  
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<400> 187

Ala Val Ser Glu Lys Thr Gly Ser Gly Asn Thr Gly Lys Leu Ile  
 1 5 10 15

<210> 188  
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 <212> PRT  
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<400> 188

Ala Leu Gly Tyr Ser Gly Ala Gly Ser Tyr Gln Leu Thr  
 1 5 10

<210> 189  
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<400> 189

Ala Ser Ser Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Phe  
 1 5 10

<210> 190  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 190

Ala Val Asn Pro Tyr  
 1 5

<210> 191  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 191

## 38

Ser Tyr Asn Glu Gln Phe Phe Gly Pro Gly Thr Arg Leu Thr Val Leu  
 1 5 10 15

<210> 192  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 192

Asn Thr Gly Glu Leu Phe Phe Gly Glu Gly Ser Arg Leu Thr Val Leu  
 1 5 10 15

<210> 193  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 193

Leu Arg Gly Ala Ala Gly Arg Leu Gly Gly Gly Leu Leu Val Leu  
 1 5 10 15

<210> 194  
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 <212> PRT  
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<400> 194

Ser Thr Asp Thr Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val Leu  
 1 5 10 15

<210> 195  
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 <212> PRT  
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<400> 195

Ala Lys Asn Ile Gln Tyr Phe Gly Ala Gly Thr Arg Leu Ser Val Leu  
 1 5 10 15

<210> 196  
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 <212> PRT  
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<400> 196

Gln Glu Thr Gln Tyr Phe Gly Pro Gly Thr Arg Leu Leu Val Leu  
 1 5 10 15

<210> 197  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 197

Ser Gly Ala Asn Val Leu Thr Phe Gly Ala Gly Ser Arg Leu Thr Val  
 1 5 10 15

Leu

<210> 198  
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 <212> PRT  
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<400> 198

Ser Tyr Glu Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val Thr  
 1 5 10 15

<210> 199  
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 <212> PRT  
 <213> Homo sapiens

<400> 199

Met Met Lys Ser Leu Gly Val Leu Leu Val Ile Leu Trp Leu Gln Leu  
 1 5 10 15

Ser Trp Val Trp Ser Gln Gln Lys Glu Val Glu Gln Asn Ser Gly Pro  
 20 25 30

Leu Ser Val Pro Glu Gly Ala Ile Ala Ser Leu Asn Cys Thr Tyr Ser  
 35 40 45

Asp Arg Gly Ser Gln Ser Phe Phe Trp Tyr Arg Gln Tyr Ser Gly Lys  
 50 55 60

Ser Pro Glu Leu Ile Met Ser Ile Tyr Ser Asn Gly Asp Lys Glu Asp  
 65 70 75 80

Gly Arg Phe Thr Ala Gln Leu Asn Lys Ala Ser Gln Tyr Val Ser Leu  
 85 90 95

Leu Ile Arg Asp Ser Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala  
 100 105 110

Val Val Asn Asp Met Arg Phe Gly Ala Gly Thr Arg Leu Thr Val Lys  
115 120 125

Pro Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser  
130 135 140

Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln  
145 150 155 160

Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys  
165 170 175

Thr Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val  
180 185 190

Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn  
195 200 205

Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys  
210 215 220

Asp Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn  
225 230 235 240

Phe Gln Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val  
245 250 255

Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser  
260 265 270

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<213> Homo sapiens

<400> 200

Met Leu Pro Ala Ala Met Ala Ala Ala Gly Ile Arg Phe Thr Gly Gly  
1 5 10 15

Trp Gly Gly Gly Met Ser Gln Asn Asp Phe Leu Glu Ser Pro Ala Pro  
20 25 30

Leu Ser Ser Met His Arg Tyr Arg Arg Pro Leu Arg His Ala Ala Ser  
35 40 45



Ala Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp  
 50 55 60

Ala Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val  
 65 70 75 80

Leu Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn  
 85 90 95

His Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg  
 100 105 110

Leu Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val  
 115 120 125

Pro Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu  
 130 135 140

Arg Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala  
 145 150 155 160

Ser Ser Trp Gly Arg Ala Tyr Glu Gln Tyr Phe Gly Pro Gly Thr Arg  
 165 170 175

Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala  
 180 185 190

Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr  
 195 200 205

Leu Val Cys Leu Ala Thr Gly Phe Phe Pro Asp His Val Glu Leu Ser  
 210 215 220

Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro  
 225 230 235 240

Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu  
 245 250 255

Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn  
 260 265 270

His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu

275

280

285

Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu  
 290 295 300

Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Val Ser Tyr Gln Gln  
 305 310 315 320

Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala  
 325 330 335

Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val  
 340 345 350

Lys Arg Lys Asp Phe  
 355

<210> 201  
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<400> 201

Asp Leu Asn Lys Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser  
 1 5 10 15

Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala  
 20 25 30

Thr Gly Phe Phe Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly  
 35 40 45

Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu Lys Glu  
 50 55 60

Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu Arg  
 65 70 75 80

Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys Gln  
 85 90 95

Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp Arg  
 100 105 110

Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala

115

120

125

Asp Cys Gly Phe Thr Ser Val Ser Tyr Gln Gln Gly Val Leu Ser Ala  
 130 135 140

Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val  
 145 150 155 160

Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp Phe  
 165 170 175

&lt;210&gt; 202

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 202

Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser  
 1 5 10 15

Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala  
 20 25 30

Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly  
 35 40 45

Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu Lys Glu  
 50 55 60

Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu Arg  
 65 70 75 80

Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys Gln  
 85 90 95

Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp Arg  
 100 105 110

Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala  
 115 120 125

Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln Gly Val Leu Ser Ala  
 130 135 140

Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val

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<210> 203
<211> 16
<212> DNA
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<220>  
<223> Primer sequence

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gctccggcat gtgcaa 16
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<210>	204
<211>	19
<212>	DNA
<213>	Artificial

<220>  
<223> Primer sequence

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<400> 204
aggatcttca tgaggtagt 19
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<210> 205
<211> 23
<212> DNA
<213> Artificial
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<220>  
<223> Primer sequence

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<400> 205
agtcagattt gttgctccag gcc 23
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<210>	206
<211>	21
<212>	DNA
<213>	Artificial

<220>  
<223> Primer sequence

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<400> 206
ttcaccacc agctcagctc c 21
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<210> 207  
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 <212> DNA  
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<220>  
 <223> Primer sequence

<220>  
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 <223> I

<220>  
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 <222> (8)..(9)  
 <223> n is a, c, g, or t

<220>  
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 <223> I

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 <223> n is a, c, g, or t

<400> 207  
 caccgggng ggnngggn

19

<210> 208  
 <211> 27  
 <212> DNA  
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<220>  
 <223> Primer sequence

<400> 208  
 atacgcgttc tctcagctgg tacacgg

27

<210> 209  
 <211> 28  
 <212> DNA  
 <213> Artificial

<220>

<223> Primer sequence

<400> 209

atacgcgtag atctctgctt ctgatggc