

A-1679-WO-PCT
SEQUENCE LISTING

<110> AMGEN INC.

<120> METHODS OF TREATMENT USING AN IFN-GAMMA INHIBITOR

<130> A-1679-WO-PCT

<140> TO BE ASSIGNED

<141> 2012-11-21

<150> 61/651,900

<151> 2012-05-25

<150> 61/616,846

<151> 2012-03-28

<150> 61/563,357

<151> 2011-11-23

<160> 697

<170> PatentIn version 3.5

<210> 1

<211> 990

<212> DNA

<213> Homo sapiens

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tggaaactcag gcgcccgtgac cagcggcgctg cacaccttcc cggctgtcct acagtcctca	180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc	240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc	300
aaatcttgty acaaaactca cacatgcca ccgtgcccag cacctgaact cctgggggga	360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct	420
gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg	480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacaac	540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag	600
gagtacaagt gcaaggctct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc	660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgccccatc ccgggatgag	720
ctgaccaaga accagggtcag cctgacctgc ctgggtcaaag gcttctatcc cagcgacatc	780
gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg	840
ctggactccg acggctcctt cttcctctat agcaagctca ccgtggacaa gagcagggtg	900
cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg	960
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<210> 2
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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
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Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
      20      25      30

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

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
      50      55      60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65      70      75      80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
      85      90      95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
      100      105      110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
      115      120      125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130      135      140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145      150      155      160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
      165      170      175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
      180      185      190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
      195      200      205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210      215      220
    
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Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
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Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
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Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
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tggaagggtg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac	180
agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag	240
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agcttcaaca ggggagagtg t	321

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
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35

40

45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

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 cccgggaaaag gcctggagtt gatggggatc atctatcctg gtgactctga taccagatac 180
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 ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgg ttcggggagc 300
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<210> 6
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Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Asn Phe Thr Ser Tyr
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Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Leu Met
 35 40 45

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

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

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Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Gly Ser Gly Ser Tyr Phe Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
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<210> 7
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<212> DNA
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cctggccagg ctcccaggct cctcatatat ggtgcatcca gcagggccac tggcatccca	180
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag	240
cctgaagatt ttgcagtgta ttactgtcag cggctctggtg gctcatcatt cactttcggc	300
cctgggacca aagtggatat caaa	324

<210> 8
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
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Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

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

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

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

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
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<210> 9
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cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
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ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgg ttcggggagc 300
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<210> 10
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<212> PRT
<213> Homo sapiens

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20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

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

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Gly Ser Gly Ser Tyr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 11
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<212> DNA

<213> Homo sapiens

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cctggccagg	ctcccaggct	cctcatatat	ggtgcatcca	gcagggccac	tggcatccca	180
gacaggttca	gtggcagtgg	gtctgggaca	gacttcactc	tcaccatcag	cagactggag	240
cctgaagatt	ttgcagtgta	ttactgtcag	cggtctggtg	gctcatcatt	cactttcggc	300
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			20					25					30		

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

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

Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu	Glu
65					70					75					80

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

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cccgggaaag	gcctggagtt	gatggggatc	atctatcctg	gtgactctga	taccagatac	180
agcccgtcct	tccaaggcca	ggtcaccatc	tcagccgaca	agtccatcag	caccgcctac	240

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tactggtact tcgatctctg gggccgtggc accctgggtca ccgtctctag t 351

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

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

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Gly Ser Gly Ser Tyr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 15
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cctggccagg ctcccaggct cctcatatat ggtgcatcca gcagggccac tggcatccca 180
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240
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cctgggacca aagtggatat caaa 324

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<210> 16
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 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Arg Ser Gly Gly Ser Ser
 85 90 95
 Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
 100 105

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

<400> 17
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 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Leu Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

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Gly Ser Gly Ser Tyr Phe Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
100 105 110

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

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

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

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

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

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

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
210 215 220

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
225 230 235 240

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

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

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

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

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

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

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

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

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

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

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

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
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His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440 445

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Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

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

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

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

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala
100 105 110

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

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

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

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

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

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

Ser Phe Asn Arg Gly Glu Cys
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35 40 45

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

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

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Gly Ser Gly Ser Tyr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
100 105 110

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

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

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

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

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

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

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
210 215 220

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
225 230 235 240

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

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

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

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

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

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

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

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

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

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

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

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

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

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

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala
100 105 110

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

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

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

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

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

Ser Phe Asn Arg Gly Glu Cys
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<210> 21
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35 40 45

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

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

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Gly Ser Gly Ser Tyr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
100 105 110

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

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

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

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser

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

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

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
210 215 220

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
225 230 235 240

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

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

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

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

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

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

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

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

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

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

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

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

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

<210> 22
<211> 215
<212> PRT
<213> Homo sapiens

<400> 22
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
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Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

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

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

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

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala
100 105 110

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

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

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

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

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

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys

195

200

205

Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 23
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
 primer"

<220>
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<400> 23
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<210> 24
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 <213> Artificial Sequence

<220>
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<400> 24
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<220>
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<210> 26
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic

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<210> 27
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
primer"

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<210> 28
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
primer"

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<210> 29
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
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primer"

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<210> 30
<211> 117
<212> PRT
<213> Homo sapiens

<400> 30
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1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met

35

40

45

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

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

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

Gly Ser Gly Ser Tyr Trp Tyr Phe Asp Leu Arg Gly Arg Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
 115

<210> 31
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 31
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 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ile Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Thr Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Val Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Arg Leu Glu
 65 70 75 80

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

Met Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 32
 <211> 447
 <212> PRT
 <213> Homo sapiens

<400> 32

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Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
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 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Gly Ser Gly Ser Tyr Trp Tyr Phe Asp Leu Arg Gly Arg Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
 210 215 220
 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
 225 230 235 240
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 245 250 255

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

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

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

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

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

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

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

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

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

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

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

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

<210> 33
<211> 216
<212> PRT
<213> Homo sapiens

<400> 33
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ile Ser Ser
20 25 30

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Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Thr Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Val Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Arg Leu Glu
65 70 75 80

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

Met Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val
100 105 110

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 34
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<213> Homo sapiens

<400> 34
Ser Tyr Trp Ile Gly
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<210> 35
<211> 17
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<213> Homo sapiens

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Gly

<210> 36
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<400> 36
 Gly Ser Tyr Phe Tyr Phe Asp Leu
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<210> 37
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<400> 37
 Gly Ser Tyr Trp Tyr Phe Asp Leu
 1 5

<210> 38
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<400> 38
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 1 5 10

<210> 39
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 <212> PRT
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<400> 39
 Arg Ala Ser Gln Ser Val Ser Ser Ser Ser Leu Ala
 1 5 10

<210> 40
 <211> 12
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<400> 40
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 1 5 10

<210> 41
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<400> 41
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 1 5

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<400> 43
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<210> 44
 <211> 10
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<400> 44
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 1 5 10

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 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 45
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<210> 46
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 <212> DNA
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<400> 46
 gggagctact ggtacttcga tctc 24

<210> 47
 <211> 27
 <212> DNA
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<400> 47
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<210> 48
 <211> 351
 <212> DNA
 <213> Homo sapiens

<400> 48
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 ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgg ttcggggagc 300
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<210> 49
 <211> 327
 <212> DNA
 <213> Homo sapiens

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<210> 50
 <211> 1944
 <212> DNA
 <213> Homo sapiens

<400> 50
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 aacatgctca gcattgatca tctcacagac cacaagtcac agcgccttgc acgtctagtt 360
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 attttggttt atgcagactg tgtcttggca aactggaaga aaaaggatcc taataagccc 540
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gaggcggagc ttgcagtgag ccaagattgt gccactgcaa tccggcctgg gctaaagagc	1860
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<211> 3993

<212> DNA

<213> Homo sapiens

<400> 51

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cttgggtcgt tacacatgac accagtgcct ttgtttcatt gggctgggct ctctggaagg	180
tgtgctgctg cctgagctgc tggaaaagca ctgacagggt tttgctagaa aagcactcct	240
ggagcttgcc accagcttgg acttctaggg acttttcctt cagccaggaa ggattttgat	300

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<211> 2545

<212> DNA

<213> Homo sapiens

<400> 52

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aagaatggag	ttcaaacatg	tctaaaccca	gattcagcag	atgtgaagga	actgattaaa	300
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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<210> 73
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<220>
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<210> 79

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<400> 87
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<210> 88

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

 <400> 91
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 <210> 92
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 <220>
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<400> 92
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<210> 93
<211> 60
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<220>
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<400> 93
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<210> 94
<211> 60
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<220>
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<400> 94
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<210> 95
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<220>
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<400> 95
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<210> 96
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<220>
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<400> 96
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<210> 97

<211> 60
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 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

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 <210> 101
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 101
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<210> 102
 <211> 60
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<220>
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<400> 102
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<210> 103
 <211> 60
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<220>
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<400> 103
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<400> 104
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<210> 105
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<400> 105
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<210> 106

<211> 60
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<220>
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<210> 107
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<220>
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<400> 107
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<210> 108
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<220>
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<400> 108
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<210> 109
 <211> 60
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<220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

<400> 109
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<210> 110
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<220>
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<400> 110
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<220>
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<400> 111
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<220>
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<400> 112
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<210> 113
<211> 60
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 113
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<210> 114
<211> 60
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 114
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<210> 115

<211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

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 <220>
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 <220>
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 <210> 118
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 <220>
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 <400> 118
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 <210> 119
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 <220>
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probe"

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<210> 120
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<220>
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<400> 120
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<210> 121
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<220>
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<400> 121
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<210> 122
 <211> 60
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<220>
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<400> 122
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<210> 123
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<220>
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<400> 123
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<210> 124

<211> 60
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 <210> 125
 <211> 60
 <212> DNA
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 <210> 126
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 126
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 <210> 127
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 <210> 128
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probe"

<400> 128
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<210> 129
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<400> 129
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<210> 130
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<220>
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<210> 131
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<400> 131
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<210> 132
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<400> 132
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<210> 133

<211> 60
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 <210> 134
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 <210> 135
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 <210> 136
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probe"

<400> 137
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<210> 138
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<400> 138
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<210> 139
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<220>
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<400> 139
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<210> 140
 <211> 60
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<220>
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<400> 140
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<210> 141
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<400> 141
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<210> 142

<211> 60
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 <210> 144
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 <210> 145
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probe"

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<210> 147
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<400> 147
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<210> 148
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<400> 148
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<210> 149
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<400> 149
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<210> 151

<211> 60
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 <400> 152
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 <210> 153
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<210> 156
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<210> 157
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<400> 157
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<210> 158
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<400> 158
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<210> 159
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<210> 160

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 <210> 164
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<400> 164
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<210> 165
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<400> 165
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<400> 166
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<210> 167
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<400> 167
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<210> 168
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<400> 168
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<210> 169

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<400> 173
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<210> 174
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<400> 174
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<210> 175
<211> 60
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 175
gcttatitttg gttgcagttt ccaattttta aaaatgttga ggtaatcttt cccaccttcc 60

<210> 176
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 176
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<210> 177
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 177
ctcaaactgg aaataagggt catgcaattc agtgtgatgt gagggatcct gatatggttc 60

<210> 178

<211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 178
 gcctggggac tgtagaagaa ctcgcaaadc ttgctgcttt cctttgtagt gattatgctt 60

 <210> 179
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 179
 cctgagttct gcttccttgg atgtcattgc ttaaataatag tcttgaaggg cttgttttga 60

 <210> 180
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 180
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 <210> 181
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 181
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 <210> 182
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 182
 gggcaataca gtaaattttc atgttactct tttatcagat cacaaactcc tagagtctac 60

<210> 183
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 183
 tcctgtctgt cttccgctca ctggcgatgc tggagaagac ggtggaaaaa tgctgcatct 60

<210> 184
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 184
 ctcgtgctgt caactgccgc aagaagaagt gtggtcacac caacaacctg cgtcccaaga 60

<210> 185
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 185
 cttccccgcc ccgcgtccct cccctcggc cccgcgcgtc gcctgtcctc cgagccagtc 60

<210> 186
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 186
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<210> 187

<211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 187
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 <210> 188
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 188
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 <210> 189
 <211> 60
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 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 189
 ggcccccaac cagccccccac cgcctctcat ccgccccgct ctggctgccc cccgccacag 60

 <210> 190
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 190
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 <210> 191
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 191
ctcaccgccg ccctgggtccc actcctgccc ccgccctacc tccgccccac cccatcatct 60

<210> 192
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 192
gaagcagcca tggtttcttg gggacaagat cacctttgtg gatttcatcg cttatgatgt 60

<210> 193
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 193
cccccgcgcc cggcctcccc ccggaccctt gcggctccaa ctgtgctccc cccgacgccg 60

<210> 194
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 194
cccctcctcc ccgccgcttg gagtaagaac ccaaaacccc gaagccgggc ccgcgtgcaa 60

<210> 195
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 195
cacagactca gagagaaccc accatggtgc tgtctcctgc cgacaagacc aacgtcaagg 60

<210> 196

<211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

<400> 196
 gaggaaggagg aaaaccttct cagagagcat gaaaggctgc taaaacacaa gctgaaggta 60

<210> 197
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

<400> 197
 agaagagaag catttagaga gcatcagcaa tacaaaaccg ctgagttctt gagcaaactg 60

<210> 198
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

<400> 198
 accatcatgg cagtggagtt tgacgggggc gttgtgatgg gttctgattc ccgagtgctt 60

<210> 199
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

<400> 199
 agaattctta acttcacaag tgttttactt cgacgatgtg cctttgattt aatttgggac 60

<210> 200
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 200
ctagatcctg tgctttactc tgaagactct aggagagaag tttgctgagg aatgccttca 60

<210> 201
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 201
tggacattcg aacagagttc aagaagcatt atggctattc cctatattca gcaattaaat 60

<210> 202
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 202
taagaaaggc tggttaccat cggagtttac aaagtgcctt cacgttctta cttgttgat 60

<210> 203
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 203
gcagaaagag atacaatctt gcttgaccgt ttgggacatc aatcttccac atgaagtga 60

<210> 204
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 204
gtggccaagc gtccggagca caatagatct gaagccttga aggtgtcctg tggcaagtgt 60

<210> 205

<211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 205
 agtcacagtt accgcgtgta ctacaatgcc ggccccaagg atgaggacca ggactacatc 60

 <210> 206
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 206
 atgtgagcct ttgtgatacg aattcaattt gttttcctgt cttttgacat ttgactttgc 60

 <210> 207
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 207
 tgttgtggtc gatttacaag gttgggtaac cggtaatgga aaaggactca tctacctcac 60

 <210> 208
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 208
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 <210> 209
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 209
 gaatcttccg tccctcatcc taacttgcag ttcacagaga aaagtgacat acccaaagct 60

<210> 210
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 210
 gacaacattt gatcccaaga aaaccagaat ggaacccttt cacttcaaaa actcagttat 60

<210> 211
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 211
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<210> 212
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 212
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<210> 213
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 213
 tgaaccacca gtcccaggag aaggcaactc cagtcagaac agcagaaata agcgtgccgt 60

<210> 214

<211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 214
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 <210> 215
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 215
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 <210> 216
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 216
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 <210> 217
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 217
 gaaatactga aacttgctgc ctattgggta tgctgaggcc cacagactta cagaagaagt 60

 <210> 218
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 218
ctgtcctgga ccctgtgtgc ctcataaggg ctattctttc tttcacgtgc aaaacatttt 60

<210> 219
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 219
tatgtacagt ttacatgaat gttcctcagg acatggcata caatggcctt ggaggtccaa 60

<210> 220
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 220
atcctagaaa caccttgaag tatgccaaga aaaacgtccg tgcattttgg aaactcagag 60

<210> 221
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 221
aaggaggtct acatcaagaa tggggataag aaaggcagct gtgagagaga tgctcaatat 60

<210> 222
<211> 60
<212> DNA
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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 222
ggagctctgc cctgcaggga gttgccccaa ccctttccgg aactcagtct ttagaaaaga 60

<210> 223

<211> 60
 <212> DNA
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 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 223
 gaccaggaaa aacaagaaag acatactcaa tcctgattca agtatggaaa cttcaccaga 60

 <210> 224
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 224
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 <210> 225
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 225
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 <210> 226
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 226
 aaatgagtac gaagataacc aaatctgcta ctggcacatt agactcaagt atggtcagcg 60

 <210> 227
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 227
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<210> 228
 <211> 60
 <212> DNA
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<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 228
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<210> 229
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 229
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<210> 230
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 230
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<210> 231
 <211> 60
 <212> DNA
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<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 231
 acgacctggt catcaaaaagc cttgacaaat tgaaggaggt gaaggagttt ttgggtgaga 60

<210> 232

<211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 232
 ttcgtttcag tcaagacaat gcttagttca gatactcaaa aatgtcttca ctctgtctta 60

 <210> 233
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 233
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 <210> 234
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 234
 gtaccagaat tgcttagaag ataccagaag gtgcggtcta gggaccagtg aataagaaga 60

 <210> 235
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 235
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 <210> 236
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic

probe"

<400> 236
ctgtgttttat atggaagaaa gtaagggtgct tggagtttac ctggccttatt taatatgctt 60

<210> 237
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 237
tgagaaagac agcaccatt gaaacagata tgtgtgtgaa agtatatttt tcaattccag 60

<210> 238
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 238
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<210> 239
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 239
gagcattttt tacaagcctt ccacttcaat ttccatcttt aagaagaaac tcaagggtca 60

<210> 240
<211> 60
<212> DNA
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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 240
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<210> 241

<211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 241
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 <210> 242
 <211> 60
 <212> DNA
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 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 242
 cgcccccgaa attcaagatt gagtgtcagg ctttatatat attcagcatt cctcattaca 60

 <210> 243
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 243
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 <210> 244
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 244
 agctgaccca gcatcagcca cactctgggt tggaaaatgt ttgcctgttg gaattaattt 60

 <210> 245
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 245
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<210> 246
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 246
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<210> 247
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 247
 aatattaacc taatcaccat gtaagcactc tggatgatgg attccacaaa acttggtttt 60

<210> 248
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 248
 ctgtgtggaa ccactgacta ctggctctca ttgacttcct tactaagcat agcaaacaga 60

<210> 249
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 249
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<210> 250

<211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 250
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 <210> 251
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 251
 aagttgaaca atcctagcca ttgacaatcg tgatagttat tattttccca tttgctgtct 60

 <210> 252
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 252
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 <210> 253
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 253
 cctcatgtat ttatgcctaa tgtaagctga cttttaaaaa gctttctttt gttgcatgcc 60

 <210> 254
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 254
 tggaagcaat ctgcattcat aactttgatt ggagaataaa tggatacat ggtgctgtct 60

<210> 255
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 255
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<210> 256
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 256
 attcgaataa agctcttgag aagggactga atcctctgaa tgcatactcc gatctcgctg 60

<210> 257
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 257
 tcaaaaatct ctgcatcctg aggtgatata cttcatattt gtaatcaact gaaagagctg 60

<210> 258
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 258
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<210> 259

<211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 259
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 <220>
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<220>
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<220>
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<220>
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<400> 269
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<220>
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<220>
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<220>
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 <210> 280
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 <220>
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<400> 283
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<400> 284
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<210> 285
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<220>
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<400> 285
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<210> 286

<211> 60
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<400> 290
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<210> 292
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<400> 292
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<210> 294
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<210> 300
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<400> 300
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<400> 301
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<210> 302
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<400> 302
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<210> 303
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<400> 303
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<210> 304

<211> 60
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 <210> 305
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 <210> 306
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<400> 308
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<220>
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<400> 320
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<210> 321
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<210> 327
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<400> 327
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<400> 337
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<210> 338
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<400> 338
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<400> 339
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 <210> 344
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<400> 344
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<210> 345
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<210> 346
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<220>
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<400> 346
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<210> 347
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<210> 349

<211> 60
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 <210> 353
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<400> 353
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<210> 354
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<400> 354
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<210> 355
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<400> 356
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<210> 357
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<211> 60
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<210> 363
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<210> 364
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<400> 364
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<210> 365
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<400> 365
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<210> 366
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<400> 371
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<400> 373
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<210> 374
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<400> 374
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<210> 375
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<220>
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<210> 376

<211> 60
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<210> 381
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<400> 381
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<400> 382
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<400> 383
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<210> 384
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 <210> 387
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 <210> 389
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<400> 389
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<210> 390
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<210> 391
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<400> 391
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<210> 392
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<220>
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<400> 392
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<210> 393
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<400> 393
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<210> 394

<211> 60
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 <210> 395
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 <210> 396
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 <400> 396
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 <210> 397
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<400> 398
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<210> 399
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<400> 399
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<210> 400
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<220>
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<400> 400
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<210> 401
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<220>
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<400> 401
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<210> 402
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<220>
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<400> 402
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<210> 403

<211> 60
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 <210> 404
 <211> 60
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 <220>
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 <210> 405
 <211> 60
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 <220>
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 <210> 406
 <211> 60
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 <220>
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 <400> 406
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 <210> 407
 <211> 60
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 <220>
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<400> 407
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<210> 408
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<220>
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<400> 408
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<210> 409
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<220>
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<400> 409
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<210> 410
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<220>
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<400> 410
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<210> 411
 <211> 60
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<220>
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<400> 411
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<210> 412

<211> 60
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 <210> 413
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 <210> 414
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 <210> 415
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 <400> 415
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<400> 416
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<210> 417
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<400> 417
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<210> 418
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<220>
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<400> 418
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<210> 419
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<210> 420
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<220>
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<400> 420
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 <210> 422
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 <210> 423
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 <211> 60
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 <210> 425
 <211> 60
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 <220>
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<400> 425
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<210> 426
<211> 60
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<220>
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<400> 426
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<210> 427
<211> 60
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 454
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<210> 472
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<210> 473
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<400> 473
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<210> 474
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<210> 482
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<400> 482
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<210> 489
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<210> 492
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<210> 493

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 <210> 494
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 <210> 496
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<400> 497
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<210> 498
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<400> 498
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<210> 499
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<400> 499
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<210> 500
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<400> 500
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<210> 501
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<400> 501
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<210> 502

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<210> 508
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<400> 508
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<210> 509
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<210> 510
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<210> 511

<211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

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 <210> 513
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 <220>
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<400> 515
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<210> 520

<211> 60
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probe"

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<210> 525
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<220>
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<210> 526
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<220>
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<400> 526
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<210> 527
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<210> 543
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<400> 543
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<400> 554
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<400> 555
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 <210> 560
 <211> 60
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<400> 560
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<210> 561
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 561
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<210> 562
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<400> 562
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<400> 563
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<400> 564
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<210> 565

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 <400> 565
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 <210> 568
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 <210> 569
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<400> 569
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<400> 570
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<400> 571
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<400> 572
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<210> 573
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<220>
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<400> 573
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<210> 574

<211> 60
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 <210> 575
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 <210> 576
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 <220>
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<220>
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<400> 579
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<210> 580
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<400> 580
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<210> 581
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<400> 581
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<400> 582
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<210> 583

<211> 60
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 <210> 584
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 <210> 585
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 <210> 586
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<210> 590
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<400> 590
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<210> 591
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<400> 591
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<210> 592

<211> 60
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

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 <210> 594
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 594
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 <210> 595
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 595
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 <210> 596
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic

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<400> 596
ggccatacgc catgccatag cttgtgctat ctgtaaatat gagacttgta aagaactgcc 60

<210> 597
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<400> 597
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<210> 598
<211> 60
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 598
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<210> 599
<211> 60
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<213> Artificial Sequence

<220>
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<400> 599
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<210> 600
<211> 60
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 600
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<210> 601

<211> 60
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 <220>
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<400> 605
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<210> 606
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<210> 607
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 607
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<210> 608
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<220>
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<400> 608
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<210> 609
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<210> 610

<211> 60
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<220>
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<400> 610
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<210> 611
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<220>
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<400> 611
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<210> 612
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<220>
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<400> 612
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<210> 613
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<220>
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<400> 613
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<210> 614
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probe"

<400> 614
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<210> 615
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<400> 615
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<210> 616
<211> 60
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 616
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<210> 617
<211> 60
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<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 617
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<210> 618
<211> 60
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<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 618
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<210> 619

<211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

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 <210> 620
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 620
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 <210> 621
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 621
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 <210> 622
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 622
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 <210> 623
 <211> 60
 <212> DNA
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 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic

probe"

<400> 623
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<210> 624
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 624
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<210> 625
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 625
aatggcttcg gacaaaatat ctctgagttc tgtgtatttt cagtcaaac tttaaacctg 60

<210> 626
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 626
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<210> 627
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 627
gattatggga ttttcagat caatagccgc tactggtgta atgatggcaa aaccccagga 60

<210> 628

<211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 628
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 <210> 629
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 629
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 <210> 630
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 630
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 <210> 631
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 631
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 <210> 632
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 632
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<210> 633
 <211> 60
 <212> DNA
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<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 633
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<210> 634
 <211> 60
 <212> DNA
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<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 634
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<210> 635
 <211> 60
 <212> DNA
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<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 635
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<210> 636
 <211> 60
 <212> DNA
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<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
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<400> 636
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<210> 637

<211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 637
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 <210> 638
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 638
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 <210> 639
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 639
 agctatgagt tgaaatgttc tgtcaaatgt gtctcacatc tacacgtggc ttggaggctt 60

 <210> 640
 <211> 60
 <212> DNA
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 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 640
 agctgctgtg cctgatgtcg ggacagccct gctcccaagt acaaataagag tgacccgtaa 60

 <210> 641
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic

probe"

<400> 641
gcaagctggc tttgtagcac attttacaaa tgtgtggcat tgaatattgc acagtgatgg 60

<210> 642
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
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<400> 642
gcctggtaaa atcatacacc aataccagcc acatcatgca gtacggaaac gaaacgatct 60

<210> 643
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 643
tgttctaccg tacttttagta gtttgaagtt ttcaagtgc taactatattt tgaccagcag 60

<210> 644
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 644
acacaaatat gccacctcaa acaagcaciaa gttgaccccg gaatatctgg agctcaaaaa 60

<210> 645
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 645
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<210> 646

<211> 60
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 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 646
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 <210> 647
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 647
 aagaatgtac ataatgttac cggagctgat ttgtttggc attagctctt aatagttgtg 60

 <210> 648
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 648
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 <210> 649
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 649
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 <210> 650
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 650
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<210> 651
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 651
gaagatgatc atggatgaca gcaaacgcaa ggcgaagtct ttgaggggca acaacaacta 60

<210> 652
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 652
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<210> 653
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 653
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<210> 654
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 654
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<210> 655

<211> 60
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 655
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 <210> 656
 <211> 60
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 <400> 656
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 <210> 657
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 <210> 658
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 <400> 658
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 <210> 659
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 659
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<210> 660
<211> 60
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<220>
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<400> 660
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<210> 661
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
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<400> 661
aagataggaa ggttatttgg agatatctgt gcctgctaaa cacaaatgca tcggcccaca 60

<210> 662
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 662
aatatttgtg taacggagat atactactgt aagttttgta ctgtactggc tgaaagtctg 60

<210> 663
<211> 60
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<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
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<400> 663
atgacagaag ggttcatata aacagtatcc tgacacagtc atgcttcctg gattttggag 60

<210> 664

<211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 664
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 <210> 665
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 665
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 <210> 666
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 666
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 <210> 667
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 667
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 <210> 668
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 668
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<210> 669
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 669
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<210> 670
<211> 60
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 670
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<210> 671
<211> 60
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<400> 671
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<210> 672
<211> 60
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 672
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<210> 673

<211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 673
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 <210> 674
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 674
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 <210> 675
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 675
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 <210> 676
 <211> 60
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

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 <210> 677
 <211> 60
 <212> DNA
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 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic

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<400> 677
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<210> 678
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 678
 tgttcatatg ggagaagggg gagtaatgac ttgtacaaac agtatttctg gtgtatatatt 60

<210> 679
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 679
 gttagggctc ctattcaaca cacacatgct tccctttcct gagtcccatc cctgcgtgat 60

<210> 680
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 680
 tcacaggaag tagaggaggc cacgttctta ctagtttccc ttgcatgggt tagaaagctt 60

<210> 681
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 681
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<210> 682

<211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 682
 cacggacagg aagcacagca ggtttatcca gatgaactga gaaggtcaga ttagggcggg 60

 <210> 683
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 683
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 <210> 684
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 684
 cagacagaca gatggaccgg cccacactcc cagagttgct aacatggagc tctgagatca 60

 <210> 685
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 685
 aagtgcaaat gcacctcctg caagaagagc tgctgctcct gttgccccct gggctgtgcc 60

 <210> 686
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic

probe"

<400> 686
tgcccaattg ccaaactaaa gacatcagtt cattgggtcaa atatttggtta cctggaatgg 60

<210> 687
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 687
aatcagagag tgtcacagat ttaaccttga tctaaagaca agttgtaccc agagtatgtg 60

<210> 688
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 688
tgcttttaac ttccccacca tgttgacact aaagctttgg agttttcctg tgattagtgt 60

<210> 689
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 689
tgggaaacat gcgtgtgacc tccacagcta cctcttctat ggactgggtg ttgccaaaca 60

<210> 690
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 690
aagatcagga aatgtagaca tctagtgtt tctttagtag acagtttaat ttcccccaag 60

<210> 691

<211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 691
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 <210> 692
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 692
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 <210> 693
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 693
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 <210> 694
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

 <400> 694
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 <210> 695
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic probe"

probe"

<400> 695
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<210> 696
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 696
 tcctgcatgg gatctgatgg atcatgaaaa tattttgttt ctcaccatat gcttttggtg 60

<210> 697
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 697
 Asp Glu Ala Asp
 1