<110> GENENTECH, INC. et al.

<120> COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND TREATMENT OF TUMOR

<130> P4412R1-WO

<150> US 61/308,791
<151> 2010-02-26

<150> US 61/307,338
<151> 2010-02-23

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gggagaggag agaggcttcc cgcctgacag ggccactccg cttttgcaaa 200

ccgcagagat aatgacgcca cccactaaga ccttatggcc caagggttcc 250

aacgccagtc tggcgcggtc gttggcacct gcggaggtgc ctaaaggaga 300

caggacggca ggatctccgc cacgcaccat ctcccctccc ccgtgccaag 350

gacccatcga gatcaaggag actttcaaat acatcaacac ggttgtgtcc 400

tgccttgtgt tcgtgctggg gatcatcggg aactccacac ttctgagaat 450

tatctacaag aacaagtgca tgcgaaacgg tcccaatatc ttgatcgcca 500

gcttggctct gggagacctg ctgcacatcg tcattgacat ccctatcaat 550

gtctacaagc tgctggcaga ggactggcca tttggagctg agatgtgtaa 600

gctggtgcct ttcatacaga aagcctccgt gggaatcact gtgctgagtc 650

tatgtgctct gagtattgac agatatcgag ctgttgcttc ttggagtaga 700

attaaaggaa ttggggttcc aaaatggaca gcagtagaaa ttgttttgat 750

ttgggtggtc tctgtggttc tggctgtccc tgaagccata ggttttgata 800

taattacgat ggactacaaa ggaagttatc tgcgaatctg cttgcttcat 850

cccgttcaga agacagcttt catgcagttt tacaagacag caaaagattg 900

gtggctgttc agtttctatt tctgcttgcc attggccatc actgcatttt 950

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attgctttaa atgatcacct aaagcagaga cgggaagtgg ccaaaaccgt 1050

cttttgcctg gtccttgtct ttgccctctg ctggcttccc cttcacctca 1100

gcaggattct gaagctcact ctttataatc agaatgatcc caatagatgt 1150

gaacttttga gctttctgtt ggtattggac tatattggta tcaacatggc 1200

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gattcaaaaa ctgctttaag tcatgcttat gctgctggtg ccagtcattt 1300

gaagaaaaac agtccttgga ggaaaagcag tcgtgcttaa agttcaaagc 1350

taatgatcac ggatatgaca acttccgttc cagtaataaa tacagctcat 1400

cttgaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1450

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<210> 2
<211> 442
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<213> Homo sapiens

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

230 235 240

Asp Ile Ile Thr Met Asp Tyr Lys Gly Ser Tyr Leu Arg Ile Cys
245 250 255

Leu Leu His Pro Val Gln Lys Thr Ala Phe Met Gln Phe Tyr Lys
260 265 270

Thr Ala Lys Asp Trp Trp Leu Phe Ser Phe Tyr Phe Cys Leu Pro
275 280 285

Leu Ala Ile Thr Ala Phe Phe Tyr Thr Leu Met Thr Cys Glu Met
290 295 300

Leu Arg Lys Lys Ser Gly Met Gln Ile Ala Leu Asn Asp His Leu
305 310 315

Lys Gln Arg Arg Glu Val Ala Lys Thr Val Phe Cys Leu Val Leu
320 325 330

Val Phe Ala Leu Cys Trp Leu Pro Leu His Leu Ser Arg Ile Leu
335 340 345

Lys Leu Thr Leu Tyr Asn Gln Asn Asp Pro Asn Arg Cys Glu Leu
350 355 360

Leu Ser Phe Leu Leu Val Leu Asp Tyr Ile Gly Ile Asn Met Ala
365 370 375

Ser Leu Asn Ser Cys Ile Asn Pro Ile Ala Leu Tyr Leu Val Ser
380 385 390

Lys Arg Phe Lys Asn Cys Phe Lys Ser Cys Leu Cys Cys Trp Cys
395 400 405

Gln Ser Phe Glu Glu Lys Gln Ser Leu Glu Glu Lys Gln Ser Cys
410 415 420

Leu Lys Phe Lys Ala Asn Asp His Gly Tyr Asp Asn Phe Arg Ser
425 430 435

Ser Asn Lys Tyr Ser Ser Ser
440

<210> 3
<211> 219
<212> PRT
<213> Homo sapiens

<400> 3
Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile
1 5 10 15

Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu
20 25 30

Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro
35 40 45

Gly Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp
50 55 60

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
65 70 75

Phe Thr Leu Lys Ile Thr Arg Val Glu Ala Glu Asp Leu Gly Val
80 85 90

```
Tyr Tyr Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly
                95                  100                 105

Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val
            110                 115                 120

Ser Ile Phe Pro Pro Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala
            125                 130                 135

Ser Val Val Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp Ile Asn
            140                 145                 150

Val Lys Trp Lys Ile Asp Gly Ser Glu Arg Gln Asn Gly Val Leu
            155                 160                 165

Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met
            170                 175                 180

Ser Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg His Asn
            185                 190                 195

Ser Tyr Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser Pro Ile
            200                 205                 210

Val Lys Ser Phe Asn Arg Asn Glu Cys
            215
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<210> 4
<211> 448
<212> PRT
<213> Homo sapiens

<400> 4

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 Gln Val Gln Leu Leu Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly
   1               5                  10                  15

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

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

 Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Ser Tyr
            50                  55                  60

 Ala Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Thr Asp Lys Tyr
            65                  70                  75

 Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Ala Ser Glu Asp
            80                  85                  90

 Ser Ala Val Tyr Tyr Cys Ala Arg Trp Gly Tyr Ala Tyr Asp Ile
            95                  100                 105

 Asp Asn Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser
            110                 115                 120

 Thr Lys Gly Pro Ser Val Tyr Pro Leu Ala Pro Val Cys Gly Asp
            125                 130                 135

 Thr Thr Gly Ser Ser Val Thr Leu Gly Cys Leu Val Lys Gly Tyr
            140                 145                 150

 Phe Pro Glu Pro Val Thr Leu Thr Trp Asn Ser Gly Ser Leu Ser
            155                 160                 165

 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Asp Leu Tyr
            170                 175                 180
```

```
Thr Leu Ser Ser Ser Val Thr Val Thr Ser Ser Thr Trp Pro Ser
                185                 190                 195

Gln Ser Ile Thr Cys Asn Val Ala His Pro Ala Ser Ser Thr Lys
            200                 205                 210

Val Asp Lys Lys Ile Glu Pro Arg Gly Pro Thr Ile Lys Pro Cys
            215                 220                 225

Pro Pro Cys Lys Cys Pro Ala Pro Asn Leu Leu Gly Gly Pro Ser
            230                 235                 240

Val Phe Ile Phe Pro Pro Lys Ile Lys Asp Val Leu Met Ile Ser
            245                 250                 255

Leu Ser Pro Ile Val Thr Cys Val Val Val Asp Val Ser Glu Asp
            260                 265                 270

Asp Pro Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val Glu Val
            275                 280                 285

His Thr Ala Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser Thr
            290                 295                 300

Leu Arg Val Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met
            305                 310                 315

Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Asp Leu Pro
            320                 325                 330

Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly Ser Val Arg
            335                 340                 345

Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu Glu Glu Met Thr
            350                 355                 360

Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp Phe Met Pro
            365                 370                 375

Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr Glu Leu
            380                 385                 390

Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr
            395                 400                 405

Phe Met Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu
            410                 415                 420

Arg Asn Ser Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn
            425                 430                 435

His His Thr Thr Lys Ser Phe Ser Arg Thr Pro Gly Lys
            440                 445
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<210> 5
<211> 112
<212> PRT
<213> Homo sapiens

<400> 5

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Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile
  1               5                  10                  15

Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu
            20                  25                  30

Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro
```

```
                35                  40                  45

 Gly Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp
                50                  55                  60

 Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
                65                  70                  75

 Phe Thr Leu Lys Ile Thr Arg Val Glu Ala Glu Asp Leu Gly Val
                80                  85                  90

 Tyr Tyr Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly
                95                 100                 105

 Gly Thr Lys Leu Glu Ile Lys
               110

<210> 6
<211> 109
<212> PRT
<213> Homo sapiens

<400> 6
 Gln Val Gln Leu Leu Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly
   1               5                  10                  15

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

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

 Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Ser Tyr
                50                  55                  60

 Ala Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Thr Asp Lys Tyr
                65                  70                  75

 Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Ala Ser Glu Asp
                80                  85                  90

 Ser Ala Val Tyr Tyr Cys Ala Arg Trp Gly Tyr Ala Tyr Asp Ile
                95                 100                 105

 Asp Asn Trp Gly


<210> 7
<211> 16
<212> PRT
<213> Homo sapiens

<400> 7
 Lys Ser Ser Gln Ser Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu
   1               5                  10                  15

 Asn


<210> 8
<211> 7
<212> PRT
<213> Homo sapiens

<400> 8
 Leu Val Ser Lys Leu Asp Ser
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<210> 9
<211> 9
<212> PRT
<213> Homo sapiens

<400> 9
Trp Gln Gly Thr His Phe Pro Tyr Thr
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<210> 10
<211> 10
<212> PRT
<213> Homo sapiens

<400> 10
Gly Tyr Thr Phe Thr Ser Tyr Trp Met Gln
5 10

<210> 11
<211> 17
<212> PRT
<213> Homo sapiens

<400> 11
Thr Ile Tyr Pro Gly Asp Gly Asp Thr Ser Tyr Ala Gln Lys Phe
1 5 10 15

Lys Gly

<210> 12
<211> 9
<212> PRT
<213> Homo sapiens

<400> 12
Trp Gly Tyr Ala Tyr Asp Ile Asp Asn
5

<210> 13
<211> 219
<212> PRT
<213> Homo sapiens

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu
20 25 30

Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Gln Gln Lys Pro
35 40 45

Gly Lys Ala Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp
50 55 60

Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
65 70 75

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr
80 85 90

Tyr Tyr Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gln
95 100 105

Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val
110 115 120

```
Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala
                125                 130                 135

Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys
                140                 145                 150

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
                155                 160                 165

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
                170                 175                 180

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
                185                 190                 195

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
                200                 205                 210

Thr Lys Ser Phe Asn Arg Gly Glu Cys
                215
```

<210> 14
<211> 448
<212> PRT
<213> Homo sapiens

<400> 14

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
  1               5                  10                  15

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr
                20                  25                  30

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

Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Ser Tyr
                50                  55                  60

Ala Gln Lys Phe Lys Gly Arg Ala Thr Leu Ser Thr Asp Lys Ser
                65                  70                  75

Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
                80                  85                  90

Thr Ala Val Tyr Tyr Cys Ala Arg Trp Gly Tyr Ala Tyr Asp Ile
                95                 100                 105

Asp Asn Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
                110                 115                 120

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser
                125                 130                 135

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
                140                 145                 150

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
                155                 160                 165

Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
                170                 175                 180

Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
                185                 190                 195

Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr
```

```
                200                 205                 210

Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
                215                 220                 225

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

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

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

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

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

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
                305                 310                 315

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
                320                 325                 330

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
                335                 340                 345

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
                350                 355                 360

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
                365                 370                 375

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
                380                 385                 390

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
                395                 400                 405

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
                410                 415                 420

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
                425                 430                 435

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

<210> 15
<211> 112
<212> PRT
<213> Homo sapiens

<400> 15
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
   1               5                  10                  15

 Gly Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu
                20                  25                  30

 Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Gln Gln Lys Pro
                35                  40                  45

 Gly Lys Ala Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp
                50                  55                  60
```

Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
65 70 75

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr
80 85 90

Tyr Tyr Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gln
95 100 105

Gly Thr Lys Val Glu Ile Lys
110

<210> 16
<211> 109
<212> PRT
<213> Homo sapiens

<400> 16
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
1 5 10 15

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr
20 25 30

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

Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Ser Tyr
50 55 60

Ala Gln Lys Phe Lys Gly Arg Ala Thr Leu Ser Thr Asp Lys Ser
65 70 75

Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Ala Arg Trp Gly Tyr Ala Tyr Asp Ile
95 100 105

Asp Asn Trp Gly

<210> 17
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<213> Homo sapiens

<400> 17
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
1 5 10 15

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

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

Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Ser Tyr
50 55 60

Ala Gln Lys Phe Lys Gly Arg Val Thr Ile Thr Arg Asp Thr Ser
65 70 75

Thr Ser Thr Ala Tyr Leu Glu Leu Ser Ser Leu Arg Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Ala Arg Trp Gly Tyr Ala Tyr Asp Ile
95 100 105

Asp Asn Trp Gly