

# SEQUENCE LISTING

<110> ANNEXON, INC.  
ROSENTHAL, ARNON  
LEVITEN, MICHAEL

<120> ANTI-COMPLEMENT FACTOR C1Q ANTIBODIES  
AND USES THEREOF

<130> 717192000640

<150> US 61/844,369

<151> 2013-07-09

<150> US 61/871,813

<151> 2013-08-29

<160> 26

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1

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

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<210> 2

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2

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Met Met Met Lys Ile Pro Trp Gly Ser Ile Pro Val Leu Met Leu Leu

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1   | Leu | Leu | Leu | 5   | Leu | Ile | Asp | Ile | 10  | Gln | Ala | Gln | Leu | 15  | Ser | Cys | Thr |
|     | Gly | Pro | Pro | 20  | Ala | Ile | Pro | Gly | 25  | Pro | Gly | Ile | Pro | 30  | Gly | Thr | Pro |
|     | Pro | Asp | Gly | 35  | Gln | Pro | Gly | Thr | 40  | Pro | Gly | Ile | Lys | 45  | Gly | Glu | Lys |
|     | Pro | Gly | Leu | 50  | Ala | Gly | Asp | His | 55  | Gly | Glu | Phe | Gly | 60  | Glu | Lys | Gly |
| 65  | Gly | Ile | Pro | 65  | Gly | Asn | Pro | Gly | 70  | Lys | Val | Gly | Pro | 75  | Lys | Gly | Pro |
|     | Pro | Lys | Gly | 85  | Pro | Gly | Ala | Pro | 90  | Gly | Ala | Pro | Gly | 95  | Pro | Lys | Gly |
|     | Ser | Gly | Asp | 100 | Lys | Ala | Thr | Gln | 105 | Lys | Ile | Ala | Phe | 110 | Ser | Ala | Thr |
|     | Thr | Ile | Asn | 115 | Val | Pro | Leu | Arg | 120 | Arg | Asp | Gln | Thr | 125 | Ile | Arg | Phe |
|     | Val | Ile | Thr | 130 | Asn | Met | Asn | Asn | 135 | Asn | Tyr | Glu | Pro | 140 | Arg | Ser | Gly |
| 145 | Thr | Cys | Lys | 145 | Val | Pro | Gly | Leu | 150 | Tyr | Tyr | Phe | Thr | 155 | Tyr | His | Ala |
|     | Arg | Gly | Asn | 165 | Leu | Cys | Val | Asn | 170 | Met | Arg | Gly | Arg | 175 | Glu | Arg | Ala |
|     | Lys | Val | Val | 180 | Thr | Phe | Cys | Asp | 185 | Tyr | Ala | Tyr | Asn | 190 | Thr | Phe | Gln |
|     | Thr | Gly | Gly | 195 | Met | Val | Leu | Lys | 200 | Leu | Glu | Gln | Gly | 205 | Glu | Asn | Val |
|     | Gln | Ala | Thr | 210 | Asp | Lys | Asn | Ser | 215 | Leu | Leu | Gly | Met | 220 | Glu | Gly | Ala |
| 225 | Ile | Phe | Ser | 225 | Gly | Phe | Leu | Leu | 230 | Phe | Pro | Asp | Met | 235 | Glu | Ala |     |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     |     |     |     |     |

<210> 3  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

|         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 3 | Met | Asp | Val | Gly | Pro | Ser | Ser | Leu | Pro | His | Leu | Gly | Leu | Lys | Leu | Leu |
| 1       | Leu | Leu | Leu | Leu | 5   | Leu | Pro | Leu | Arg | 10  | Gly | Gln | Ala | Asn | Thr | Gly |
|         | Tyr | Gly | Ile | 20  | Gly | Met | Pro | Gly | 25  | Leu | Pro | Gly | Ala | 30  | Gly | Lys |
|         | Gly | Tyr | Asp | 35  | Pro | Gly | Pro | Lys | 40  | Gly | Glu | Pro | Gly | 45  | Ile | Pro |
|         | Ile | Pro | Gly | 50  | Ile | Arg | Gly | Pro | 55  | Gln | Lys | Gly | Glu | 60  | Pro | Gly |
| 65      | Pro | Gly | His | 65  | Pro | Gly | Lys | Asn | 70  | Gly | Pro | Met | Gly | 75  | Pro | Pro |
|         | Gly | Val | Pro | 85  | Gly | Pro | Met | Gly | 90  | Ile | Pro | Gly | Glu | 95  | Pro | Gly |
|         | Arg | Tyr | Lys | 100 | Gln | Lys | Phe | Gln | 105 | Val | Phe | Thr | Val | 110 | Thr | Arg |
|         | His | Gln | Pro | 115 | Pro | Ala | Pro | Asn | 120 | Ser | Leu | Ile | Arg | 125 | Phe | Asn |
|         | Thr | Asn | Pro | 130 | Gln | Gly | Asp | Tyr | 135 | Thr | Asp | Thr | Ser | 140 | Thr | Gly |
| 145     | Lys | Val | Pro | 145 | Gly | Leu | Tyr | Tyr | 150 | Phe | Val | Tyr | His | 155 | Ala | Ser |
|         | Asn | Leu | Cys | 165 | Val | Leu | Leu | Tyr | 170 | Arg | Ser | Gly | Val | 175 | Lys | Val |
|         | Cys | Gly | His | 180 | Thr | Ser | Lys | Thr | 185 | Asn | Gln | Val | Asn | 190 | Ser | Gly |
|         | Leu | Arg | Leu | 195 | Gln | Val | Gly | Glu | 200 | Val | Trp | Leu | Ala | 205 | Val | Asn |
|         | Tyr | Asp | Met | 210 | Val | Gly | Ile | Gln | 215 | Gly | Ser | Asp | Ser | 220 | Val | Phe |
| 225     |     |     |     | 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |
|         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

Leu Leu Phe Pro Asp  
245

<210> 4  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 4  
Asp Val Gln Ile Thr Gln Ser Pro Ser Tyr Leu Ala Ala Ser Pro Gly  
1 5 10 15  
Glu Thr Ile Thr Ile Asn Cys Arg Ala Ser Lys Ser Ile Asn Lys Tyr  
20 25 30  
Leu Ala Trp Tyr Gln Glu Lys Pro Gly Lys Thr Asn Lys Leu Ile  
35 40 45  
Tyr Ser Gly Ser Thr Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly  
50 55 60  
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro  
65 70 75 80  
Glu Asp Phe Ala Met Tyr Tyr Cys Gln Gln His Asn Glu Tyr Pro Leu  
85 90 95  
Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys  
100 105

<210> 5  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 5  
Arg Ala Ser Lys Ser Ile Asn Lys Tyr Leu Ala  
1 5 10

<210> 6  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 6  
Ser Gly Ser Thr Leu Gln Ser  
1 5

<210> 7  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 7  
Gln Gln His Asn Glu Tyr Pro Leu Thr  
1 5

<210> 8  
<211> 121  
<212> PRT  
<213> Homo sapiens

<400> 8  
Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala  
1 5 10 15  
Ser Val Lys Leu Ser Cys Lys Ser Ser Gly Tyr His Phe Thr Ser Tyr  
20 25 30  
Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45  
Gly Val Ile His Pro Asn Ser Gly Ser Ile Asn Tyr Asn Glu Lys Phe

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| 50  |     | 55  |     | 60  |
| Glu | Ser | Lys | Ala | Thr |
| 65  |     |     |     |     |
| Met | Gln | Leu | Ser | Ser |
|     |     |     |     |     |
| Ala | Gly | Glu | Arg | Asp |
|     |     |     |     |     |
| Gln | Gly | Thr | Ser | Val |
|     |     |     |     |     |

<210> 9  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 9  
 Gly Tyr His Phe Thr Ser Tyr Trp Met His  
 1 5 10

<210> 10  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 10  
 Val Ile His Pro Asn Ser Gly Ser Ile Asn Tyr Asn Glu Lys Phe Glu  
 1 5 10 15  
 Ser

<210> 11  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 11  
 Glu Arg Asp Ser Thr Glu Val Leu Pro Met Asp Tyr  
 1 5 10

<210> 12  
 <211> 321  
 <212> PRT  
 <213> Homo sapiens

<400> 12  
 Gly Ala Thr Gly Thr Cys Cys Ala Gly Ala Thr Ala Ala Cys Cys Cys  
 1 5 10 15  
 Ala Gly Thr Cys Thr Cys Cys Ala Thr Cys Thr Thr Ala Thr Cys Thr  
 20 25 30  
 Thr Gly Cys Thr Gly Cys Ala Thr Cys Thr Cys Cys Thr Gly Gly Ala  
 35 40 45  
 Gly Ala Ala Ala Cys Cys Ala Thr Thr Ala Cys Thr Ala Thr Thr Ala  
 50 55 60  
 Ala Thr Thr Gly Cys Ala Gly Gly Gly Cys Ala Ala Gly Thr Ala Ala  
 65 70 75 80  
 Gly Ala Gly Cys Ala Thr Thr Ala Ala Cys Ala Ala Ala Thr Ala Thr  
 85 90 95  
 Thr Thr Ala Gly Cys Cys Thr Gly Gly Thr Ala Thr Cys Ala Ala Gly  
 100 105 110  
 Ala Gly Ala Ala Ala Cys Cys Thr Gly Gly Gly Ala Ala Ala Ala Cys  
 115 120 125  
 Thr Ala Ala Thr Ala Ala Gly Cys Thr Thr Cys Thr Thr Ala Thr Cys  
 130 135 140  
 Thr Ala Cys Thr Cys Thr Gly Gly Ala Thr Cys Cys Ala Cys Thr Thr  
 145 150 155 160

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Cys | Ala | Ala | Thr | Cys | Thr | Gly | Gly | Ala | Ala | Thr | Thr | Cys | Cys |
| Ala | Thr | Cys | Ala | 165 | Gly | Gly | Thr | Thr | 170 | Cys | Ala | Gly | Thr | Gly | 175 |
| Ala | Gly | Thr | 180 | Gly | Gly | Ala | Thr | Cys | 185 | Thr | Gly | Thr | Ala | Cys | 190 |
| Ala | Thr | Thr | 195 | Thr | Cys | Ala | Cys | Thr | 200 | Cys | Thr | Cys | Ala | Cys | 205 |
| Cys | Ala | Gly | Thr | Ala | Gly | Thr | Cys | Thr | Gly | Gly | Ala | Gly | Cys | Cys | 210 |
| Gly | Ala | Ala | Gly | Ala | 230 | Thr | Thr | Thr | Thr | Gly | Cys | Ala | Ala | Thr | 235 |
| Ala | Thr | Thr | Ala | Cys | Thr | Gly | Thr | Cys | 250 | Ala | Ala | Cys | Ala | Ala | 255 |
| Thr | Ala | Ala | Thr | Gly | Ala | Ala | Thr | Ala | Cys | Cys | Cys | Gly | Cys | Thr | 260 |
| Ala | Cys | Gly | Thr | Thr | Cys | Gly | Gly | Thr | Gly | Cys | Thr | Gly | Gly | Gly | 270 |
| Cys | Cys | Ala | Ala | Gly | Cys | Thr | Gly | Gly | Ala | Gly | Cys | Thr | Gly | Ala | 285 |
| Ala | Ala | Ala | Gly | Cys | 310 | Thr | Gly | Gly | Ala | Gly | Cys | Thr | Gly | Ala | 300 |
| Ala | Ala | Ala | Gly | Cys | 310 | Thr | Gly | Gly | Ala | Gly | Cys | Thr | Gly | Ala | 315 |
| Ala | Ala | Ala | Gly | Cys | 310 | Thr | Gly | Gly | Ala | Gly | Cys | Thr | Gly | Ala | 320 |

<210> 13  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<400> 13

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ala | Gly | Gly | Thr | Cys | Cys | Ala | Ala | Cys | Thr | Gly | Cys | Ala | Gly | Cys |
| 1   | Ala | Gly | Cys | 5   | Thr | Gly | Gly | Gly | 10  | Cys | Thr | Gly | Ala | Gly | 15  |
| Ala | Gly | Cys | Cys | 20  | Thr | Gly | Gly | Gly | 25  | Cys | Thr | Gly | Ala | Gly | 30  |
| Gly | Gly | Thr | Ala | Ala | Ala | Gly | Cys | Cys | 40  | Thr | Gly | Gly | Gly | Gly | 45  |
| Thr | Cys | Ala | Gly | Thr | Gly | Ala | Ala | Gly | 55  | Thr | Thr | Gly | Thr | Cys | 60  |
| Gly | Cys | Ala | Ala | Gly | Thr | Cys | Thr | Thr | 70  | Cys | Thr | Gly | Gly | Cys | 75  |
| 65  | Cys | Cys | Ala | Thr | Thr | Thr | Cys | Ala | Cys | 90  | Cys | Ala | Gly | Cys | 95  |
| Thr | Gly | Gly | Ala | Thr | Gly | Cys | Ala | Cys | 105 | Thr | Gly | Gly | Gly | Thr | 110 |
| Ala | Gly | Cys | Ala | Gly | Ala | Gly | Gly | Cys | 120 | Cys | Thr | Gly | Gly | Ala | 125 |
| Ala | Gly | Gly | Cys | Cys | Thr | Thr | Gly | Ala | 135 | Gly | Thr | Gly | Gly | Ala | 140 |
| Gly | Gly | Ala | Gly | Thr | Gly | Ala | Thr | Thr | 150 | Cys | Ala | Thr | Cys | Cys | 155 |
| 145 | Ala | Thr | Ala | Gly | Thr | Gly | Gly | Thr | 165 | Ala | Gly | Thr | Ala | Thr | 170 |
| Ala | Thr | Ala | Gly | Thr | Gly | Gly | Thr | Ala | 180 | Gly | Thr | Ala | Thr | Thr | 185 |
| Cys | Thr | Ala | Cys | Ala | Ala | Thr | Gly | Ala | 195 | Gly | Ala | Ala | Gly | Thr | 200 |
| Gly | Ala | Gly | Ala | Gly | Cys | Ala | Ala | Gly | 210 | Gly | Gly | Cys | Cys | Ala | 215 |
| Thr | Gly | Ala | Cys | Thr | Gly | Thr | Ala | Gly | 220 | Ala | Cys | Ala | Ala | Ala | 225 |
| Cys | Thr | Cys | Cys | Ala | Gly | Cys | Ala | Cys | 230 | Ala | Gly | Cys | Cys | Thr | 235 |
| 225 | Ala | Thr | Gly | Cys | Ala | Cys | Thr | Cys | 245 | Ala | Gly | Cys | Ala | Gly | 250 |
| Ala | Thr | Gly | Cys | Ala | Ala | Thr | Cys | Thr | 260 | Ala | Gly | Gly | Ala | Cys | 265 |
| Thr | Gly | Ala | Cys | Ala | Thr | Cys | Thr | Gly | 270 | Ala | Gly | Gly | Ala | Cys | 275 |
| Gly | Gly | Cys | Gly | Gly | Thr | Cys | Thr | Ala | 280 | Thr | Thr | Ala | Thr | Thr | 285 |
| Gly | Cys | Ala | Gly | Gly | Ala | Gly | Ala | Gly | 290 | Ala | Gly | Ala | Gly | Ala | 295 |
| Cys | Thr | Ala | Cys | Gly | Gly | Ala | Gly | Gly | 300 | Thr | Thr | Cys | Thr | Cys | 305 |

305 Thr Ala Thr Gly Gly 310 Ala Cys Thr Ala Cys 315 Thr Gly Gly Gly Gly 320 Thr  
 Cys Ala Ala Gly 325 Gly Ala Ala Cys Cys 330 Thr Cys Ala Gly Thr 335 Cys Ala  
 Cys Cys Gly 340 Thr Cys Thr Cys Cys 345 Thr Cys Ala  
 Cys 355 Cys 360

<210> 14  
 <211> 245  
 <212> PRT  
 <213> Mus musculus

<400> 14  
 Met Glu Thr Ser Gln Gly Trp Leu Val Ala Cys Val Leu Thr Met Thr  
 1 5 10 15  
 Leu Val Trp Thr Val Ala Glu Asp Val Cys Arg Ala Pro Asn Gly Lys  
 20 25 30  
 Asp Gly Ala Pro Gly Asn Pro Gly Arg Pro Gly Arg Thr Gly Leu Lys  
 35 40 45  
 Gly Glu Arg Gly Glu Pro Gly Ala Ala Gly Ile Arg Thr Gly Ile Arg  
 50 55 60  
 Gly Phe Lys Gly Asp Pro Gly Glu Ser Gly Pro Pro Gly Lys Pro Gly  
 65 70 75 80  
 Asn Val Gly Leu Pro Gly Pro Ser Gly Pro Leu Gly Asp Ser Gly Pro  
 85 90 95  
 Gln Gly Leu Lys Gly Val Lys Gly Asn Pro Gly Asn Ile Arg Asp Gln  
 100 105 110  
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Gln Asn Pro Met Thr Leu Gly  
 115 120 125  
 Asn Val Val Ile Phe Asp Lys Val Leu Thr Asn Gln Glu Ser Pro Tyr  
 130 135 140  
 Gln Asn His Thr Gly Arg Phe Ile Cys Ala Val Pro Gly Phe Tyr Tyr  
 145 150 155 160  
 Phe Asn Phe Gln Val Ile Ser Lys Trp Asp Leu Cys Leu Phe Ile Lys  
 165 170 175  
 Ser Ser Ser Gly Gln Pro Arg Asp Ser Leu Ser Phe Ser Asn Thr  
 180 185 190  
 Asn Asn Lys Gly Leu Phe Gln Val Leu Ala Gly Gly Thr Val Leu Gln  
 195 200 205  
 Leu Arg Arg Gly Asp Glu Val Trp Ile Glu Lys Asp Pro Ala Lys Gly  
 210 215 220  
 Arg Ile Tyr Gln Gly Thr Glu Ala Asp Ser Ile Phe Ser Gly Phe Leu  
 225 230 235 240  
 Ile Phe Pro Ser Ala  
 245

<210> 15  
 <211> 246  
 <212> PRT  
 <213> Mus musculus

<400> 15  
 Met Val Val Gly Pro Ser Cys Gln Pro Pro Cys Gly Leu Cys Leu Leu  
 1 5 10 15  
 Leu Leu Phe Leu Leu Ala Leu Pro Leu Arg Ser Gln Ala Ser Ala Gly  
 20 25 30  
 Cys Tyr Gly Ile Pro Gly Met Pro Gly Met Pro Gly Ala Pro Gly Lys  
 35 40 45  
 Asp Gly His Asp Gly Leu Gln Gly Pro Lys Gly Glu Pro Gly Ile Pro  
 50 55 60  
 Ala Val Pro Gly Thr Arg Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly  
 65 70 75 80  
 Met Pro Gly His Arg Gly Lys Asn Gly Pro Arg Gly Thr Ser Gly Leu  
 85 90 95  
 Pro Gly Asp Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Val Glu  
 100 105 110

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Tyr | Lys | Gln | Lys | His | Gln | Ser | Val | Phe | Thr | Val | Thr | Arg | Gln |
| Thr | Thr | 115 | Gln | Tyr | Pro | Glu | Ala | Asn | Ala | Leu | Val | Arg | 125 | Phe | Asn |
| Val | Thr | 130 | Asn | Pro | Gln | Gly | His | Tyr | Asn | Pro | Ser | Thr | Gly | Lys | Phe |
| 145 | Cys | Glu | Val | Pro | Gly | 150 | Leu | Tyr | Tyr | Phe | Val | Tyr | Tyr | Thr | 160 |
| Ala | Asn | Leu | Cys | Val | His | Leu | Asn | Leu | Asn | Leu | Ala | Arg | Val | 175 | His |
| Phe | Cys | Asp | His | Met | Phe | Asn | Ser | Lys | Gln | Val | Ser | Ser | Gly | Gly | Val |
| Leu | Leu | Arg | Leu | Gln | Arg | Gly | Asp | Glu | Val | Trp | Leu | Ser | Val | Asn | Asp |
| Tyr | Asn | Gly | Met | Val | Gly | 120 | Ile | Glu | Gly | Ser | Asn | Ser | Val | Phe | Ser |
| 225 | Phe | Leu | Leu | Phe | Pro | Asp | 230 |     |     |     | 235 |     |     |     | 240 |
|     |     |     |     |     | 245 |     |     |     |     |     |     |     |     |     |     |

<210> 16  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Phe | Gln | Val | Val | Ser | Gly | Gly | Met | Val | Leu | Gln | Leu | Gln | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Asp | Gln | Val | Trp | Val | Glu | Lys | Asp | Pro | Lys | Lys | Gly | His | Ile |     |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 17  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Phe | Gln | Val | Val | Ser | Gly | Gly | Met | Val | Leu | Gln | Leu | Gln | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Asp | Gln | Val | Trp | Val | Glu | Lys | Asp | Pro |     |     |     |     |     |     |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     |     |     |

<210> 18  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Gly | Met | Val | Leu | Gln | Leu | Gln | Gln | Gly | Asp | Gln | Val | Trp | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Lys | Asp | Pro |     |     |     |     |     |     |     |     |     |     |     |     |
|     |     |     | 20  |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 19  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Gly | Met | Val | Leu | Gln | Leu | Gln | Gln | Gly | Asp | Gln | Val | Trp | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 20

<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 20  
Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile Gln Gly Ser  
1 5 10 15  
Asp Ser Val Phe Ser Gly Phe  
20

<210> 21  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 21  
Tyr Asp Met Val Gly Ile Gln Gly Ser Asp Ser Val Phe Ser Gly Phe  
1 5 10 15

<210> 22  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 22  
Tyr Asp Met Val Gly Ile Gln Gly  
1 5

<210> 23  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 23  
His Thr Ala Asn Leu Cys Val Leu Leu Tyr Arg Ser Gly Val Lys Val  
1 5 10 15  
Val Thr Phe Cys Gly His Thr  
20

<210> 24  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 24  
Arg Ser Gly Val Lys Val Val Thr Phe  
1 5

<210> 25  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 25  
Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln Leu Gln Gln  
1 5 10 15  
Gly Asp Gln Val Trp Val Glu Lys  
20

<210> 26  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 26  
Phe Gln Val Val Ser Gly Gly Met Val Leu Gln Leu  
1 5 10