SEQUENCE LISTING

<110> Eli Lilly and Company

<120> Antibodies to PCSK9 and Uses Thereof

<130> X19477

<150> 61/535625
<151> 2011-09-16

<160> 17

<170> PatentIn version 3.5

<210> 1
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<213> Artificial Sequence

<220>
<223> Synthetic

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Gly Phe Pro Phe Ser Lys Leu Gly Met Val
1 5 10

<210> 2
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<213> Artificial

<220>
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<400> 2

Thr Ile Ser Ser Gly Gly Gly Tyr Thr Tyr Tyr Pro Asp Ser Val Lys
1 5 10 15

Gly

<210> 3
<211> 16
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<213> Artificial

<220>
<223> Synthetic

<400> 3

Glu Gly Ile Ser Phe Gln Gly Gly Thr Tyr Thr Tyr Val Met Asp Tyr

1 5 10 15

<210> 4
<211> 16
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<213> Artificial

<220>
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<400> 4

Arg Ser Ser Lys Ser Leu Leu His Arg Asn Gly Ile Thr Tyr Ser Tyr
1 5 10 15

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<220>
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Gln Leu Ser Asn Leu Ala Ser
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<210> 6
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<220>
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<400> 6

Tyr Gln Asn Leu Glu Leu Pro Leu Thr
1 5

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<400> 7

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

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe Ser Lys Leu
            20                  25                  30

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

Ser Thr Ile Ser Ser Gly Gly Gly Tyr Thr Tyr Tyr Pro Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Arg Glu Gly Ile Ser Phe Gln Gly Gly Thr Tyr Thr Tyr Val Met
            100                 105                 110

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120                 125
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<211> 112
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 8

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Arg
            20                  25                  30

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

Pro Gln Leu Leu Ile Tyr Gln Leu Ser Asn Leu Ala Ser Gly Val Pro
    50                  55                  60

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

```
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Tyr Gln Asn
                85                  90                  95

Leu Glu Leu Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105                 110
```

<210> 9
<211> 451
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 9

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe Ser Lys Leu
            20                  25                  30

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

Ser Thr Ile Ser Ser Gly Gly Gly Tyr Thr Tyr Tyr Pro Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Arg Glu Gly Ile Ser Phe Gln Gly Gly Thr Tyr Thr Tyr Val Met
            100                 105                 110

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
        115                 120                 125

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

Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
145                 150                 155                 160
```

```
Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
                165                 170                 175

Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
            180                 185                 190

Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys
        195                 200                 205

Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu
    210                 215                 220

Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
225                 230                 235                 240

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
                245                 250                 255

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
            260                 265                 270

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

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

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
305                 310                 315                 320

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser
                325                 330                 335

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
            340                 345                 350

Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val
        355                 360                 365

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
    370                 375                 380

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
```

385 390 395 400

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

Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val
420 425 430

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
435 440 445

Ser Leu Gly
450

<210> 10
<211> 219
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 10

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Arg
20 25 30

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

Pro Gln Leu Leu Ile Tyr Gln Leu Ser Asn Leu Ala Ser Gly Val Pro
50 55 60

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

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

Leu Glu Leu Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu

```
        115                 120                 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
    130                 135                 140

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
145                 150                 155                 160

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
                165                 170                 175

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

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

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215
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<210> 11
<211> 1356
<212> DNA
<213> Artificial

<220>
<223> Synthetic

<400> 11
gaggtgcagc tggtggagtc tgggggaggc ttggtaaagc ctgggggtc cctgagactc
60

tcctgtgcag cctctggatt cccgttcagt aagctcggca tggtttgggt ccgccaggct
120

ccagggaagg ggctggagtg ggtctcaacc attagtagtg gtggtggtta cacatactat
180

ccagacagtg tgaaggggcg gttcaccatc tccagagaca atgccaagaa ctcactgtat
240

ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gagagaagga
300

attagctttc agggtggcac ctacacttat gttatggact actggggcca gggcaccctg
360

gtcaccgtct cctcagcctc caccaagggc ccatcggtct tcccgctagc gccctgctcc
420

aggagcacct ccgagagcac agccgccctg ggctgcctgg tcaaggacta cttccccgaa
480

ccggtgacgg tgtcgtggaa ctcaggcgcc ctgaccagcg gcgtgcacac cttcccggct
540

gtcctacagt cctcaggact ctactccctc agcagcgtgg tgaccgtgcc ctccagcagc
600

ttgggcacga agacctacac ctgcaacgta gatcacaagc ccagcaacac caaggtggac
660

aagagagttg agtccaaata tggtccccca tgcccaccct gcccagcacc tgaggccgcc
720

gggggaccat cagtcttcct gttcccccca aaacccaagg acactctcat gatctcccgg
780

acccctgagg tcacgtgcgt ggtggtggac gtgagccagg aagaccccga ggtccagttc
840

aactggtacg tggatggcgt ggaggtgcat aatgccaaga caaagccgcg ggaggagcag
900

ttcaacagca cgtaccgtgt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaac
960

ggcaaggagt acaagtgcaa ggtctccaac aaaggcctcc cgtcctccat cgagaaaacc
1020

atctccaaag ccaaagggca gccccgagag ccacaggtgt acaccctgcc cccatcccag
1080

gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctaccccagc
1140

gacatcgccg tggagtggga aagcaatggg cagccggaga acaactacaa gaccacgcct
1200

cccgtgctgg actccgacgg ctccttcttc ctctacagca ggctaaccgt ggacaagagc
1260

aggtggcagg aggggaatgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac
1320

tacacacaga agagcctctc cctgtctctg ggttga
1356

<210> 12
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Synthetic

<400> 12

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atctcctgca ggtctagtaa gagtctctta catcgtaatg gcatcactta ttcgtattgg
120

tacctgcaga agccagggca gtctccacag ctcctgatct atcagctgtc caaccttgcc
180

tcaggagtcc cagacaggtt cagtggcagt gggtcaggca ctgatttcac actgaaaatc
240

agcagggtgg aggctgagga tgttggagtt tattactgct atcaaaatct agaacttccg
300

ctcacgttcg gccagggcac caaggtggaa atcaaacgga ctgtggctgc accatctgtc
360

ttcatcttcc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg
420

ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa
480

tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc
540

agcagcaccc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa
600

gtcacccatc agggcctgag ctcgcccgtc acaaagagct tcaacagggg agagtgctaa
660

<210> 13
<211> 672
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 13

Arg Ala Gln Glu Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala
1   5   10   15

Leu Arg Ser Glu Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr
            20   25   30

Thr Ala Thr Phe His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly
        35   40   45

Thr Tyr Val Val Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu
    50   55   60

```
Arg Thr Ala Arg Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu
65                  70                  75                  80

Thr Lys Ile Leu His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val
                85                  90                  95

Lys Met Ser Gly Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val
            100                 105                 110

Asp Tyr Ile Glu Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp
        115                 120                 125

Asn Leu Glu Arg Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln
    130                 135                 140

Pro Pro Asp Gly Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser
145                 150                 155                 160

Ile Gln Ser Asp His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp
                165                 170                 175

Phe Glu Asn Val Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala
            180                 185                 190

Ser Lys Cys Asp Ser His Gly Thr His Leu Ala Gly Val Val Ser Gly
        195                 200                 205

Arg Asp Ala Gly Val Ala Lys Gly Ala Ser Met Arg Ser Leu Arg Val
    210                 215                 220

Leu Asn Cys Gln Gly Lys Gly Thr Val Ser Gly Thr Leu Ile Gly Leu
225                 230                 235                 240

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

Val Leu Leu Pro Leu Ala Gly Gly Tyr Ser Arg Val Leu Asn Ala Ala
            260                 265                 270

Cys Gln Arg Leu Ala Arg Ala Gly Val Val Leu Val Thr Ala Ala Gly
        275                 280                 285
```

```
Asn Phe Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu
    290                 295                 300

Val Ile Thr Val Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu
305                 310                 315                 320

Gly Thr Leu Gly Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro
                325                 330                 335

Gly Glu Asp Ile Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val
            340                 345                 350

Ser Gln Ser Gly Thr Ser Gln Ala Ala Ala His Val Ala Gly Ile Ala
        355                 360                 365

Ala Met Met Leu Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg
    370                 375                 380

Gln Arg Leu Ile His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp
385                 390                 395                 400

Phe Pro Glu Asp Gln Arg Val Leu Thr Pro Asn Leu Val Ala Ala Leu
                405                 410                 415

Pro Pro Ser Thr His Gly Ala Gly Trp Gln Leu Phe Cys Arg Thr Val
            420                 425                 430

Trp Ser Ala His Ser Gly Pro Thr Arg Met Ala Thr Ala Val Ala Arg
        435                 440                 445

Cys Ala Pro Asp Glu Glu Leu Leu Ser Cys Ser Ser Phe Ser Arg Ser
    450                 455                 460

Gly Lys Arg Arg Gly Glu Arg Met Glu Ala Gln Gly Gly Lys Leu Val
465                 470                 475                 480

Cys Arg Ala His Asn Ala Phe Gly Gly Glu Gly Val Tyr Ala Ile Ala
                485                 490                 495

Arg Cys Cys Leu Leu Pro Gln Ala Asn Cys Ser Val His Thr Ala Pro
            500                 505                 510

Pro Ala Glu Ala Ser Met Gly Thr Arg Val His Cys His Gln Gln Gly
        515                 520                 525
```

```
His Val Leu Thr Gly Cys Ser Ser His Trp Glu Val Glu Asp Leu Gly
    530                 535                 540

Thr His Lys Pro Pro Val Leu Arg Pro Arg Gly Gln Pro Asn Gln Cys
545                 550                 555                 560

Val Gly His Arg Glu Ala Ser Ile His Ala Ser Cys Cys His Ala Pro
                565                 570                 575

Gly Leu Glu Cys Lys Val Lys Glu His Gly Ile Pro Ala Pro Gln Glu
            580                 585                 590

Gln Val Thr Val Ala Cys Glu Glu Gly Trp Thr Leu Thr Gly Cys Ser
        595                 600                 605

Ala Leu Pro Gly Thr Ser His Val Leu Gly Ala Tyr Ala Val Asp Asn
    610                 615                 620

Thr Cys Val Val Arg Ser Arg Asp Val Ser Thr Thr Gly Ser Thr Ser
625                 630                 635                 640

Glu Gly Ala Val Thr Ala Val Ala Ile Cys Cys Arg Ser Arg His Leu
                645                 650                 655

Ala Gln Ala Ser Gln Glu Leu Gln Asp Val His His His His His His
            660                 665                 670
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<210> 14
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 14

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Arg Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp
1               5                   10                  15

Gly Gly Ser Leu Val Glu
            20
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<210> 15
<211> 16

<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 15

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

<210> 16
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 16

Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro
1 5 10

<210> 17
<211> 376
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 17

Gln Glu Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg
1 5 10 15

Ser Glu Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala
20 25 30

Thr Phe His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr
35 40 45

Val Val Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr
50 55 60

Ala Arg Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys
65 70 75 80

Ile Leu His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met
85 90 95

```
Ser Gly Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr
            100                 105                 110

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

Glu Arg Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro
    130                 135                 140

Asp Gly Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln
145                 150                 155                 160

Ser Asp His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu
                165                 170                 175

Asn Val Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys
            180                 185                 190

Cys Asp Ser His Gly Thr His Leu Ala Gly Val Val Ser Gly Arg Asp
        195                 200                 205

Ala Gly Val Ala Lys Gly Ala Ser Met Arg Ser Leu Arg Val Leu Asn
    210                 215                 220

Cys Gln Gly Lys Gly Thr Val Ser Gly Thr Leu Ile Gly Leu Glu Phe
225                 230                 235                 240

Ile Arg Lys Ser Gln Leu Val Gln Pro Val Gly Pro Leu Val Val Leu
                245                 250                 255

Leu Pro Leu Ala Gly Gly Tyr Ser Arg Val Leu Asn Ala Ala Cys Gln
            260                 265                 270

Arg Leu Ala Arg Ala Gly Val Val Leu Val Thr Ala Ala Gly Asn Phe
        275                 280                 285

Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile
    290                 295                 300

Thr Val Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr
305                 310                 315                 320
```

```
Leu Gly Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu
                325                 330                 335

Asp Ile Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln
            340                 345                 350

Ser Gly Thr Ser Gln Ala Ala Ala His Val Ala Gly Ile Ala Ala Met
        355                 360                 365

Met Leu Ser Ala Glu Pro Glu Leu
    370                 375
```