SEQUENCE LISTING

<110> Amgen Inc.
MedImmune LLC

<120> TREATMENT OF ASTHMA WITH ANTI-TSLP ANTIBODY

<130> 32053/51920

<150> US 62/484,864
<151> 2017-04-12

<150> US 62/553,477
<151> 2017-09-01

<150> US 62/553,575
<151> 2017-09-01

<160> 106

<170> PatentIn version 3.5

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aaggcaggcc ttacagatct cttacactcg tggtgggaag agtttagtgt gaaactgggg 180

tggaattggg tgtccacgt atg ttc cct ttt gcc tta cta tat gtt ctg tca 232
Met Phe Pro Phe Ala Leu Leu Tyr Val Leu Ser
1 5 10

gtt tct ttc agg aaa atc ttc atc tta caa ctt gta ggg ctg gtg tta 280
Val Ser Phe Arg Lys Ile Phe Ile Leu Gln Leu Val Gly Leu Val Leu
15 20 25

act tac gac ttc act aac tgt gac ttt gag aag att aaa gca gcc tat 328
Thr Tyr Asp Phe Thr Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala Tyr
30 35 40

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ctc agt act att tct aaa gac ctg att aca tat atg agt ggg acc aaa        376
Leu Ser Thr Ile Ser Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys
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agt acc gag ttc aac aac acc gtc tct tgt agc aat cgg cca cat tgc        424
Ser Thr Glu Phe Asn Asn Thr Val Ser Cys Ser Asn Arg Pro His Cys
60                  65                  70                  75

ctt act gaa atc cag agc cta acc ttc aat ccc acc gcc ggc tgc gcg        472
Leu Thr Glu Ile Gln Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala
                80                  85                  90

tcg ctc gcc aaa gaa atg ttc gcc atg aaa act aag gct gcc tta gct        520
Ser Leu Ala Lys Glu Met Phe Ala Met Lys Thr Lys Ala Ala Leu Ala
            95                  100                 105

atc tgg tgc cca ggc tat tcg gaa act cag ata aat gct act cag gca        568
Ile Trp Cys Pro Gly Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala
        110                 115                 120

atg aag aag agg aga aaa agg aaa gtc aca acc aat aaa tgt ctg gaa        616
Met Lys Lys Arg Arg Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu
    125                 130                 135

caa gtg tca caa tta caa gga ttg tgg cgt cgc ttc aat cga cct tta        664
Gln Val Ser Gln Leu Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu
140                 145                 150                 155

ctg aaa caa cag taaaccatct ttattatggt catatttcac agcccaaaat            716
Leu Lys Gln Gln


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Met Phe Pro Phe Ala Leu Leu Tyr Val Leu Ser Val Ser Phe Arg Lys
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Ile Phe Ile Leu Gln Leu Val Gly Leu Val Leu Thr Tyr Asp Phe Thr
            20                  25                  30


Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala Tyr Leu Ser Thr Ile Ser
        35                  40                  45
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Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys Ser Thr Glu Phe Asn
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Asn Thr Val Ser Cys Ser Asn Arg Pro His Cys Leu Thr Glu Ile Gln
65                  70                  75                  80

Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala Ser Leu Ala Lys Glu
                85                  90                  95

Met Phe Ala Met Lys Thr Lys Ala Ala Leu Ala Ile Trp Cys Pro Gly
            100                 105                 110

Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala Met Lys Lys Arg Arg
        115                 120                 125

Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu Gln Val Ser Gln Leu
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Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu Leu Lys Gln Gln
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Gln Val Trp Asp Ser Ser Ser Asp His Val Val
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Thr Tyr Gly Met His
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Val Ile Trp Tyr Asp Gly Ser Asn Lys His Tyr Ala Asp Ser Val Lys
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<213> Homo Sapiens

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ccaggcaagg gactggagtg ggtggcagtt atatggtatg atggaagtaa taaacactat 180

gcagactccg tgaagggccg attcaccatc accagagaca attccaagaa cactctgaat 240

ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc gagagcccct 300

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tcttca 366

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1 5 10 15

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

Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys His Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Thr Arg Asp Asn Ser Lys Asn Thr Leu Asn
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 Ala Pro Gln Trp Glu Leu Val His Glu Ala Phe Asp Ile Trp
100 105 110

Gly Gln Gly Thr Met Val Thr Val Ser Ser
115 120

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<213> Homo Sapiens

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caggcccctg tgctggtcgt ctatgatgat agcgaccggc cctcatggat ccctgagcga 180

ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggg cgaagccggg 240

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cggagggacc aagctgaccg tccta 325

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<212> PRT
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
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Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Leu Gly Ser Lys Ser Val
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr
35 40 45

Asp Asp Ser Asp Arg Pro Ser Trp Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Gly Glu Ala Gly
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser Asp His
85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
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Asp Tyr Trp Met His
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His Ile Lys Ser Lys Thr Asp Ala Gly Thr Thr Asp Tyr Ala Ala Pro
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Val Lys Gly

<210> 15
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<400> 15

Glu Ile Tyr Tyr Tyr Ala Phe Asp Ser
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<210> 16
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Ser Gly Asp Asn Ile Gly Ser Lys Tyr Val His
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<210> 17

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<400> 17

Gly Asp Asn Glu Arg Pro Ser
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Gln Ala Ala Asp Trp Val Asp Phe Tyr Val
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Gly Phe Thr Phe Ser Asp Tyr
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Lys Ser Lys Thr Asp Ala Gly Thr
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<220>
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Asp Asn Ile Gly Ser Lys Tyr
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Gly Asp Asn
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Ala Asp Trp Val Asp Phe Tyr
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<220>
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly

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

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

Gly His Ile Lys Ser Lys Thr Asp Ala Gly Thr Thr Asp Tyr Ala Ala
50 55 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
65 70 75 80

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

Tyr Cys Ala Arg Glu Ile Tyr Tyr Tyr Ala Phe Asp Ser Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

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<212> PRT
<213> Artificial Sequence

<220>
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Ser Tyr Glu Leu Thr Gln Pro Leu Ser Val Ser Val Ala Leu Gly Gln
1 5 10 15

Thr Ala Arg Ile Thr Cys Ser Gly Asp Asn Ile Gly Ser Lys Tyr Val
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gly Asp Asn Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser

50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Ala Gln Ala Gly
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Ala Asp Trp Val Asp Phe Tyr
85 90 95

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 26
<211> 223
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<400> 26

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr
20 25 30

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

Gly His Ile Lys Ser Lys Thr Asp Ala Gly Thr Thr Asp Tyr Ala Ala
50 55 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
65 70 75 80

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

Tyr Cys Ala Arg Glu Ile Tyr Tyr Tyr Ala Phe Asp Ser Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val

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        115                 120                 125

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

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

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

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

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

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


<210>  27
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<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide

<400>  27

Ser Tyr Glu Leu Thr Gln Pro Leu Ser Val Ser Val Ala Leu Gly Gln
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Thr Ala Arg Ile Thr Cys Ser Gly Asp Asn Ile Gly Ser Lys Tyr Val
            20                  25                  30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
        35                  40                  45

Gly Asp Asn Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
    50                  55                  60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Ala Gln Ala Gly
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65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Ala Asp Trp Val Asp Phe Tyr
85 90 95

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala
100 105 110

Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln Ala
115 120 125

Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly Ala
130 135 140

Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala Gly Val
145 150 155 160

Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala Ser
165 170 175

Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser Tyr
180 185 190

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

Pro Thr Glu Cys Ser
210

<210> 28
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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 28

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 Thr Phe Ser Asp Tyr

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            20                  25                  30

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

Gly His Ile Lys Ser Lys Thr Asp Ala Gly Thr Thr Asp Tyr Ala Ala
    50                  55                  60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
65                  70                  75                  80

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

Tyr Cys Ala Arg Glu Ile Tyr Tyr Tyr Ala Phe Asp Ser Trp Gly Gln
            100                 105                 110

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

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

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

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

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

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

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

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240
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Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser 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 His
        275                 280                 285

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

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

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

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

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

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

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

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

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430

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

Gly Lys
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450

<210> 29
<211> 213
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 29

Ser Tyr Glu Leu Thr Gln Pro Leu Ser Val Ser Val Ala Leu Gly Gln
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Thr Ala Arg Ile Thr Cys Ser Gly Asp Asn Ile Gly Ser Lys Tyr Val
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gly Asp Asn Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Ala Gln Ala Gly
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Ala Asp Trp Val Asp Phe Tyr
85 90 95

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala
100 105 110

Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln Ala
115 120 125

Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly Ala
130 135 140

Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala Gly Val
145 150 155 160

Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala Ser

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                165                 170                 175

Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser Tyr
            180                 185                 190

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

Pro Thr Glu Cys Ser
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<210> 30
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Met Gly Ser Ser His His His His His His Leu Glu Val Leu Phe Gln
1               5                   10                  15

Gly Pro Tyr Asp Phe Thr Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala
            20                  25                  30

Tyr Leu Ser Thr Ile Ser Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr
        35                  40                  45

Lys Ser Thr Glu Phe Asn Asn Thr Val Ser Cys Ser Asn Arg Pro His
    50                  55                  60

Cys Leu Thr Glu Ile Gln Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys
65                  70                  75                  80

Ala Ser Leu Ala Lys Glu Met Phe Ala Met Lys Thr Lys Ala Ala Leu
                85                  90                  95

Ala Ile Trp Cys Pro Gly Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln
            100                 105                 110

Ala Met Lys Lys Arg Arg Lys Arg Lys Val Thr Thr Asn Lys Cys Leu
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115 120 125

Glu Gln Val Ser Gln Leu Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro
130 135 140

Leu Leu Lys Gln Gln
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<220>
<223> Dom30h-440-81/86 amino acid sequence

<400> 31

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Pro Ile Arg Asn Trp
20 25 30

Leu Asp Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Trp Gly Ala Ser His Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Val Gln Ile Gly Glu Asp Pro Val
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 32
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<213> Artificial

<220>
<223> CDRL1 of Dom30h-440-81/86, Dom30h-440-53, Dom30h-440-54, Dom30h-440-55, Dom30h-440-56, Dom30h-440-57, Dom30h-440-58, Dom30h-440-60, Dom30h-440-63, Dom30h-440-64 and Dom30h-440-65 (Kabat, Chothia and AbM CDR definition)

<400> 32

Arg Ala Ser Arg Pro Ile Arg Asn Trp Leu Asp
1 5 10

<210> 33
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDRL2 of Dom30h-440-81/86, Dom30h-440-53, Dom30h-440-54, Dom30h-440-55, Dom30h-440-56, Dom30h-440-57, Dom30h-440-58, Dom30h-440-60, Dom30h-440-63, Dom30h-440-64 and Dom30h-440-65 (Kabat, Chothia, AbM CDR definition)

<400> 33

Gly Ala Ser His Leu Gln Ser
1 5

<210> 34
<211> 9
<212> PRT
<213> Artificial

<220>
<223> CDRL3 of Dom30h-440-81/86 and Dom30h-440-55 (Kabat, Chothia, AbM CDR definition)

<400> 34

Val Gln Ile Gly Glu Asp Pro Val Thr
1 5

<210> 35
<211> 10
<212> PRT
<213> Artificial

<220>
<223> CDRL2 of Dom30h-440-81/86 (Contact CDR definition)

<400> 35

Leu Leu Ile Trp Gly Ala Ser His Leu Gln
1 5 10

<210> 36
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<212> PRT
<213> Mus musculus

<400> 36

Arg Tyr Asn Val His
1 5

<210> 37
<211> 16
<212> PRT
<213> Mus musculus

<400> 37

Met Ile Trp Asp Gly Gly Ser Thr Asp Tyr Asn Ser Ala Leu Lys Ser
1 5 10 15

<210> 38
<211> 6
<212> PRT
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<400> 38

Asn Arg Tyr Glu Ser Gly
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<210> 39
<211> 17
<212> PRT
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<400> 39

Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Arg Lys Asn Tyr Leu
1 5 10 15

Thr

<210> 40
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<212> PRT
<213> Mus musculus

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Trp Ala Ser Thr Arg Glu Ser
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<210> 41
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<212> PRT
<213> Mus musculus

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Gln Asn Asp Tyr Thr Tyr Pro Phe Thr Phe Gly Ser
1   5   10

<210> 42
<211> 5
<212> PRT
<213> Mus musculus

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Ala Tyr Trp Met Ser
1   5

<210> 43
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Glu Ile Asn Pro Asp Ser Ser Thr Ile Asn Cys Thr Pro Ser Leu Lys
1   5   10   15

Asp

<210> 44
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<212> PRT
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Arg Leu Arg Pro Phe Trp Tyr Phe Asp Val Trp

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<210> 45
<211> 16
<212> PRT
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Arg Ser Ser Gln Ser Ile Val Gln Ser Asn Gly Asn Thr Tyr Leu Glu
1 5 10 15

<210> 46
<211> 7
<212> PRT
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Lys Val Ser Asn Arg Phe Ser
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<210> 47
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Phe Gln Gly Ser His Val Pro Arg Thr
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<210> 48
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Thr Asp Tyr Ala Trp Asn
1 5

<210> 49
<211> 16
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<400> 49

Tyr Ile Phe Tyr Ser Gly Ser Thr Thr Tyr Thr Pro Ser Leu Lys Ser
1 5 10 15

<210> 50
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Gly Gly Tyr Asp Val Asn Tyr Phe
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<210> 51
<211> 11
<212> PRT
<213> Mus musculus

<400> 51

Leu Ala Ser Gln Thr Ile Gly Ala Trp Leu Ala
1 5 10

<210> 52
<211> 7
<212> PRT
<213> Mus musculus

<400> 52

Ala Ala Thr Arg Leu Ala Asp
1 5

<210> 53
<211> 9
<212> PRT
<213> Mus musculus

<400> 53

Gln Gln Phe Phe Ser Thr Pro Trp Thr
1 5

<210> 54
<211> 5
<212> PRT
<213> Mus musculus

<400> 54

Gly Tyr Thr Met Asn
1 5

<210> 55
<211> 16
<212> PRT
<213> Mus musculus

<400> 55

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

<210> 56
<211> 8
<212> PRT
<213> Mus musculus

<400> 56

Gly Asp Gly Asn Tyr Trp Tyr Phe
1 5

<210> 57
<211> 11
<212> PRT
<213> Mus musculus

<400> 57

Ser Ala Ser Ser Ser Val Thr Tyr Met His Trp
1 5 10

<210> 58
<211> 7
<212> PRT
<213> Mus musculus

<400> 58

Glu Ile Ser Lys Leu Ala Ser
1 5

<210> 59
<211> 9
<212> PRT
<213> Mus musculus

<400> 59

Gln Glu Trp Asn Tyr Pro Tyr Thr Phe
1 5

<210> 60
<211> 117
<212> PRT
<213> Mus musculus

<400> 60

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

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Arg Tyr
20 25 30

Asn Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Met Ile Trp Asp Gly Gly Ser Thr Asp Tyr Asn Ser Ala Leu Lys
50 55 60

Ser Arg Leu Ser Ile Thr Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65 70 75 80

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

Arg Asn Arg Tyr Glu Ser Gly Met Asp Tyr Trp Gly Gln Gly Thr Thr
100 105 110

Val Thr Val Ser Ser
115

<210> 61
<211> 114
<212> PRT
<213> Mus musculus

<400> 61

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

```
Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
            20                  25                  30

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

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60

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

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn
                85                  90                  95

Asp Tyr Thr Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
            100                 105                 110

Lys Arg
```

<210> 62
<211> 119
<212> PRT
<213> Mus musculus

<400> 62

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

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

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

Gly Glu Ile Asn Pro Asp Ser Ser Thr Ile Asn Cys Thr Pro Ser Leu
    50                  55                  60

Lys Asp Lys Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Ser
```

65 70 75 80

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

Ala Arg Arg Leu Arg Pro Phe Trp Tyr Phe Asp Val Trp Gly Ala Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 63
<211> 112
<212> PRT
<213> Mus musculus

<400> 63

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

Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val Gln Ser
20 25 30

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

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe 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 Leu Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95

Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 64
<211> 119
<212> PRT
<213> Mus musculus

<400> 64

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


Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr Thr Asp
            20                  25                  30


Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
        35                  40                  45


Met Gly Tyr Ile Phe Tyr Ser Gly Ser Thr Thr Tyr Thr Pro Ser Leu
    50                  55                  60


Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe
65                  70                  75                  80


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


Ala Arg Gly Gly Tyr Asp Val Asn Tyr Phe Asp Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Thr Leu Thr Val Ser Ser
        115
```

<210> 65
<211> 107
<212> PRT
<213> Mus musculus

<400> 65

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


Glu Ser Val Thr Ile Thr Cys Leu Ala Ser Gln Thr Ile Gly Ala Trp
            20                  25                  30


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

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

Ser Gly Ser Gly Thr Lys Phe Ser Phe Lys Ile Ser Ser Leu Gln Ala
65                  70                  75                  80

Glu Asp Phe Val Ser Tyr Tyr Cys Gln Gln Phe Phe Ser Thr Pro Trp
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105
```

<210> 66
<211> 119
<212> PRT
<213> Mus musculus

<400> 66

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

Ser Met Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
            20                  25                  30

Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Asn Leu Glu Trp Ile
        35                  40                  45

Gly Leu Ile Asn Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
    50                  55                  60

Lys Gly Lys Ala Thr Leu Thr Val Ala Lys Ser Ser Ser Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Gly Asp Gly Asn Tyr Trp Tyr Phe Asp Val Trp Gly Ala Gly
            100                 105                 110

Thr Thr Val Thr Val Ser Ser
        115
```

<210> 67
<211> 105
<212> PRT
<213> Mus musculus

<400> 67

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

Gln Lys Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Thr Tyr Met
20 25 30

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

Glu Ile Ser Lys Leu Ala Ser Gly Val Pro Val Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

Asp Ala Ala Ile Tyr Tyr Cys Gln Glu Trp Asn Tyr Pro Tyr Thr Phe
85 90 95

Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 68
<211> 119
<212> PRT
<213> Mus musculus

<400> 68

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

Ser Met Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
20 25 30

Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Asn Leu Glu Trp Ile
35 40 45

```
Gly Leu Ile Asn Pro Tyr Ser Gly Ile Thr Ser Tyr Asn Gln Asn Phe
    50                  55                  60

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

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

Ala Arg Gly Asp Gly Asn Tyr Trp Tyr Phe Asp Val Trp Gly Ala Gly
            100                 105                 110

Thr Thr Val Thr Val Ser Ser
        115
```

<210> 69
<211> 105
<212> PRT
<213> Mus musculus

<400> 69

```
Glu Ile Ile Leu Thr Gln Ser Pro Ala Ile Thr Ala Ala Ser Leu Gly
1               5                   10                  15

Gln Lys Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
            20                  25                  30

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

Glu Ile Ser Lys Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
    50                  55                  60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65                  70                  75                  80

Asp Ala Ala Ile Tyr Tyr Cys Gln Tyr Trp Asn Tyr Pro Tyr Thr Phe
                85                  90                  95

Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105
```

<210> 70
<211> 5
<212> PRT
<213> Mus musculus

<400> 70

Gly Tyr Thr Met Asn
1 5

<210> 71
<211> 16
<212> PRT
<213> Mus musculus

<400> 71

Leu Ile Asn Pro Tyr Ser Gly Ile Thr Ser Tyr Asn Gln Asn Phe Lys
1 5 10 15

<210> 72
<211> 8
<212> PRT
<213> Mus musculus

<400> 72

Gly Asp Gly Asn Tyr Trp Tyr Phe
1 5

<210> 73
<211> 11
<212> PRT
<213> Mus musculus

<400> 73

Ser Ala Ser Ser Ser Val Ser Tyr Met His Trp
1 5 10

<210> 74
<211> 7
<212> PRT
<213> Mus musculus

<400> 74

Glu Ile Ser Lys Leu Ala Ser

1 5

<210> 75
<211> 9
<212> PRT
<213> Mus musculus

<400> 75

Gln Tyr Trp Asn Tyr Pro Tyr Thr Phe
1 5

<210> 76
<211> 12
<212> PRT
<213> Cricetulus migratorius

<400> 76

Gly Phe Ser Ile Thr Thr Ser Gly Tyr Tyr Trp Thr
1 5 10

<210> 77
<211> 16
<212> PRT
<213> Cricetulus migratorius

<400> 77

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

<210> 78
<211> 12
<212> PRT
<213> Cricetulus migratorius

<400> 78

Ser Leu Tyr Gly Gly Tyr Lys Asp Ala Phe Asp Ser
1 5 10

<210> 79
<211> 11
<212> PRT
<213> Cricetulus migratorius

<400> 79

Lys Ala Ser Gln Ser Ile Gly Thr Ser Leu His
1   5   10

<210> 80
<211> 7
<212> PRT
<213> Cricetulus migratorius

<400> 80

Phe Ala Ser Arg Ser Ile Thr
1   5

<210> 81
<211> 9
<212> PRT
<213> Cricetulus migratorius

<400> 81

Gln Gln Ser Pro Gly Phe Pro Pro Thr
1   5

<210> 82
<211> 122
<212> PRT
<213> Cricetulus migratorius

<400> 82

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

Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Phe Ser Ile Thr Thr Ser
            20   25   30

Gly Tyr Tyr Trp Thr Trp Ile Arg Gln Phe Pro Gly Lys Lys Leu Glu
        35   40   45

Trp Met Gly Tyr Ile Gly Tyr Asn Ser Lys Thr Tyr Tyr Asn Pro Ser
    50   55   60

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

Leu Leu His Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr

85 90 95

Cys Ala Arg Ser Leu Tyr Gly Gly Tyr Lys Asp Ala Phe Asp Ser Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 83
<211> 108
<212> PRT
<213> Cricetulus migratorius

<400> 83

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

Glu Arg Val Thr Met Thr Cys Lys Ala Ser Gln Ser Ile Gly Thr Ser
20 25 30

Leu His Trp Tyr Gln His Arg Pro Asn Glu Thr Pro Arg Leu Leu Ile
35 40 45

Lys Phe Ala Ser Arg Ser Ile Thr Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn Arg
100 105

<210> 84
<211> 12
<212> PRT
<213> Artificial

<220>
<223> hCDR1 TSLPR-012_166

<400> 84

Gly Phe Ser Ile Thr Thr Ser Gly Tyr Tyr Trp Ser
1 5 10

<210> 85
<211> 16
<212> PRT
<213> Artificial

<220>
<223> hCDR2 TSLPR-012_141

<400> 85

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

<210> 86
<211> 11
<212> PRT
<213> Artificial

<220>
<223> lCDR1 TSLPR-012_141

<400> 86

Arg Ala Ser Gln Ser Ile Gly Thr Ser Leu His
1 5 10

<210> 87
<211> 7
<212> PRT
<213> Artificial

<220>
<223> lCDR2 TSLPR-012_141

<400> 87

Phe Ala Ser Arg Leu Gln Ser
1 5

<210> 88
<211> 7
<212> PRT
<213> Artificial

<220>

<223> lCDR2 TSLPR-012_75

<400> 88

Phe Ala Ser Arg Ser Ile Ser
1 5

<210> 89
<211> 122
<212> PRT
<213> Artificial

<220>
<223> sequence TSLPR-012_141 (humanized) HC variable region

<400> 89

Gln 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 Ser Ile Thr Thr Ser
20 25 30

Gly Tyr Tyr Trp Thr Trp Ile Arg Gln Phe Pro Gly Lys Gly Leu Glu
35 40 45

Trp Met Gly Tyr Ile Gly Tyr Asn Ser Lys Thr Tyr Tyr Asn Pro Ala
50 55 60

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

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

Cys Ala Arg Ser Leu Tyr Gly Gly Tyr Lys Asp Ala Phe Asp Ser Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 90
<211> 108
<212> PRT
<213> Artificial

<220>
<223> sequence TSLPR-012_141 (humanized) LC variable region

<400> 90

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

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

Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35   40   45

Lys Phe Ala Ser Arg Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
    50   55   60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65   70   75   80

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100   105

<210> 91
<211> 108
<212> PRT
<213> Artificial

<220>
<223> sequence TSLPR-012_75 (humanized) LC variable region

<400> 91

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
1   5   10   15

Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Thr Ser
            20   25   30

Leu His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
        35   40   45

```
Lys Phe Ala Ser Arg Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60


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


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


Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100                 105


<210>  92
<211>  122
<212>  PRT
<213>  Artificial

<220>
<223>  sequence TSLPR-012_166 (humanized) HC variable region

<400>  92

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


Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Ile Thr Thr Ser
            20                  25                  30


Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45


Trp Ile Gly Tyr Ile Gly Tyr Asn Ser Lys Thr Tyr Tyr Ser Pro Ser
    50                  55                  60


Leu Lys Ser Arg Val Thr Ile Ser Arg Asp Thr Ser Lys Asn Gln Phe
65                  70                  75                  80


Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95


Cys Ala Arg Ser Leu Tyr Gly Gly Tyr Lys Asp Ala Phe Asp Ser Trp
            100                 105                 110
```

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 93
<211> 108
<212> PRT
<213> Artificial

<220>
<223> sequence TSLPR-012_166 (humanized) LC variable region

<400> 93

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

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

Leu His Trp Tyr Gln His Arg Pro Gly Glu Thr Pro Lys Leu Leu Ile
        35   40   45

Lys Phe Ala Ser Arg Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
    50   55   60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65   70   75   80

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100   105

<210> 94
<211> 108
<212> PRT
<213> Artificial

<220>
<223> sequence TSLPR-012_189 (humanized) LC variable region

<400> 94

```
Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1               5                   10                  15


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


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


Lys Phe Ala Ser Arg Ser Ile Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50                  55                  60


Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65                  70                  75                  80


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


Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100                 105


<210>  95
<211>  10
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide

<400>  95

Gly Tyr Ile Phe Thr Asp Tyr Ala Met His
1               5                   10


<210>  96
<211>  17
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide

<400>  96

Thr Phe Ile Pro Leu Leu Asp Thr Ser Asp Tyr Ala Gln Lys Phe Gln
1               5                   10                  15
```

Gly

<210> 97
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 97

Met Gly Val Thr His Ser Tyr Val Met Asp Ala
1 5 10

<210> 98
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 98

Arg Ala Ser Gln Pro Ile Ser Ile Ser Val His
1 5 10

<210> 99
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 99

Phe Ala Ser Gln Ser Ile Ser
1 5

<210> 100
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 100

Gln Gln Thr Phe Ser Leu Pro Tyr Thr
1 5

<210> 101
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 101

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

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

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

Gly Thr Phe Ile Pro Leu Leu Asp Thr Ser Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Met Gly Val Thr His Ser Tyr Val Met Asp Ala Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 102
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 102

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

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

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

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

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Thr Phe Ser Leu Pro Tyr
                85   90   95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
            100   105

<210> 103
<211> 450
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 103

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

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

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

```
Gly Thr Phe Ile Pro Leu Leu Asp Thr Ser Asp Tyr Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Met Gly Val Thr His Ser Tyr Val Met Asp Ala Trp Gly Gln
            100                 105                 110

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

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

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

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

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

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

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

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

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

```
Ser 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 His
        275                 280                 285

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

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

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

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

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

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

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

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

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430

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

Gly Lys
    450
```

<210> 104
<211> 214

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 104

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


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


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


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


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


Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Thr Phe Ser Leu Pro Tyr
                85                  90                  95


Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
            100                 105                 110


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


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


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


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


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

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


Phe Asn Arg Gly Glu Cys
    210


<210>  105
<211>  448
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Polypeptide


<220>
<221>  MISC_FEATURE
<223>  Heavy chain

<400>  105

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


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


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


Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys His Tyr Ala Asp Ser Val
    50                  55                  60


Lys Gly Arg Phe Thr Ile Thr Arg Asp Asn Ser Lys Asn Thr Leu Asn
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 Ala Pro Gln Trp Glu Leu Val His Glu Ala Phe Asp Ile Trp
            100                 105                 110


Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
```

```
        115                 120                 125

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

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

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

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

Val Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp
        195                 200                 205

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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


<210>  106
<211>  214
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Polypeptide


<220>
<221>  MISC_FEATURE
<223>  Light Chain

<400>  106

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

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Leu Gly Ser Lys Ser Val
            20                  25                  30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr
        35                  40                  45
```

```
Asp Asp Ser Asp Arg Pro Ser Trp Ile Pro Glu Arg Phe Ser Gly Ser
    50                  55                  60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Gly Glu Ala Gly
65                  70                  75                  80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser Asp His
                85                  90                  95

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

Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln
        115                 120                 125

Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly
    130                 135                 140

Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala Gly
145                 150                 155                 160

Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala
                165                 170                 175

Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser
            180                 185                 190

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

Ala Pro Thr Glu Cys Ser
    210
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