SEQUENCE LISTING

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Kang, Jaspal Singh
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<130> MED0543.PCT

<150> US 61/264,061
<151> 2009-11-24

<160> 80

<170> Cambridge Antibody Technology patent software version 1.0

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Lys Gly Leu Glu Trp Val
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
Ala Lys Asn Ser Leu Phe
65 70
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Leu Gln Met Asn Ser Leu Lys Ala Glu Asp
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Pro Val Leu Val Ile Tyr
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Glu Arg Phe Ser Gly Ser
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Trp Met Ser Trp Val Arg Gln Ala Pro Gly
Lys Gly Leu Glu Trp Val
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Tyr Tyr Val Asp Ser Val
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
Ala Lys Asn Ser Leu Tyr
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Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
Thr Ala Val Tyr Tyr Cys
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Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly
Gln Ala Pro Arg Leu Leu
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Ile Phe Gly Thr Ser Ser Arg Ala Thr Gly
Ile Pro Asp Arg Phe Ser
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Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
Thr Ile Ser Arg Leu Glu
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Trp Met Ser Trp Val Arg Gln Ala Pro Gly
Lys Gly Leu Glu Trp Val
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Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys
Tyr Tyr Val Asp Ser Val
50 55
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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
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Gln Arg Val Ser Ser Ser
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Gln Ala Pro Arg Leu Leu
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Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly
Ile Pro Asp Arg Phe Ser
50 55
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Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
Thr Ile Ser Arg Leu Glu
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ccagggaagg ggctggagtg ggtctcggct
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ctgcaaatga acagcctgag agccgaggac
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Phe Thr Phe Ser Asn Tyr
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Ala Met Ser Trp Val Arg Gln Ala Pro Gly
Lys Gly Leu Glu Trp Val
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45

Ser Ala Ile Arg Gly Ser Gly Gly Ser Thr
Tyr Tyr Ala Asp Ser Val
50 55
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
Ser Lys Asn Thr Leu Tyr
65 70
75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
Thr Ala Val Tyr Tyr Cys
85 90
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Ala Lys Asp Leu His Tyr Asp Ser Ser Gly
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Gln Gly Thr Leu Val Thr Val Ser Ser
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Gln Gly Ile Arg Ser Trp
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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
Ala Pro Lys Leu Leu Ile
        35   40
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Tyr Ala Ile 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
Ala Asn Ser Phe Pro Leu
85 90
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Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
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Phe Thr Phe Ser Ser Tyr
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35 40 45

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50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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20 25
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Leu Ala Trp Tyr Gln Gln Lys Ser Gly Lys
Ala Pro Lys Leu Leu Ile
35 40
45

Tyr Ala Ala Ser Gly 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 Leu Ala Thr Tyr Tyr Cys Gln Gln Ser His Ser Leu Pro Pro
85 90
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Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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Phe Thr Phe Asn Ser Tyr
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30

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

Ser Thr Ile Ser Gly Ser Gly Gly Phe Thr
Phe Ser Ala Asp Ser Val
50 55
60

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

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

Ala Lys Val Leu Val Gly Phe Asn Asn Gly
Cys Trp Asp Tyr Trp Gly
100 105
110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 53
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<223> 3.18G1

<400> 53
Ser Tyr Ala Met Ser
5

<210> 54
<211> 17
<212> PRT
<213> Homo sapiens

<220>
<223> 3.18G1

<400> 54
Thr Ile Ser Gly Ser Gly Gly Phe Thr Phe
Ser Ala Asp Ser Val Lys
5 10
15

Gly

<210> 55
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<223> 3.18G1

<400> 55
Val Leu Val Gly Phe Asn Asn Gly Cys Trp Asp Tyr
5 10

<210> 56
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<223> 3.18G1

<400> 56
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acctgtgggg gaaacaacat tggaagtaaa agtgtgcact ggtaccagca gaagccaggc 120

caggcccctg tgctggtcgt ctatgatgat

agcgaccggc cctcagggat ccctgagcga 180

ttctctggct ccaactctgg gaacacggcc
accctgacca tcagcagggt cgaagccggg 240

gatgaggccg actattactg tcaggtgtgg
gatagtagta atgatcatgt ggtattcggc 300

ggagggacca agctgaccgt ccta
324

<210> 57
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<223> 3.18G1

<400> 57
Ser Tyr Val Leu Thr Gln Pro Pro Ser Val
Ser Val Ala Pro Gly Gln
5 10
15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn
Ile 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 Gly Ile Pro
Glu Arg Phe Ser Gly Ser
50 55
60

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

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

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

<210> 58
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> 3.18G1

<400> 58

Gly Gly Asn Asn Ile Gly Ser Lys Ser Val
His
5 10

<210> 59
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<223> 3.18G1

<400> 59
Asp Asp Ser Asp Arg Pro Ser
5

<210> 60
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> 3.18G1

<400> 60
Gln Val Trp Asp Ser Ser Asn Asp His Val
Val
5 10

<210> 61
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 61
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ctggtgaagc ctggcggctc cctgagactg 60

tcttgcgccg ccagtggctt tacattcagt
acctactcca tgaactgggt ccgccaggca 120

ccaggcaagg gcctggaatg ggtgtcctcc
atctcatcca gtggcgacta catctactac 180

gccgactccg tgaagggccg gttcaccatc
tcccgggaca acgccaagaa ctccctgtat 240

ctgcagatga actccctgag agccgaggac
accgccgtgt actactgcgc cagggacctg 300

gtgacatcca tggtggcctt cgactactgg
ggtcagggca ctctcgtcac agtgtcctct 360

<210> 62
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 62
Glu Val Gln Leu Val Glu Ser Gly Gly Gly
Leu Val Lys Pro Gly Gly
5 10
15

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

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

Ser Ser Ile Ser Ser Ser Gly Asp Tyr Ile
Tyr Tyr Ala 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 Asp Leu Val Thr Ser Met Val Ala
Phe Asp Tyr Trp Gly Gln
100 105
110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 63
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 63
Thr Tyr Ser Met Asn
5

<210> 64
<211> 17
<212> PRT
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 64

Ser Ile Ser Ser Ser Gly Asp Tyr Ile Tyr Tyr Ala Asp Ser Val Lys
5 10 15

Gly

<210> 65
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 65
Asp Leu Val Thr Ser Met Val Ala Phe Asp Tyr
5 10

<210> 66
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 66

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tccgtgtctc caggacagac ggccagaatc 60

acctgttccg gcgacgccct gcctcagaaa
tacgtgttct ggtatcagca gaagtccggc 120

caggcccctg tgctggtgat ctacgaggac
tccaagcggc cttccggcat ccctgagcgg 180

ttctccggct cctcttccgg caccatggcc
accctgacca tctctggcgc ccaggtggag 240

gacgaggccg actactactg ctactccacc
gacagatccg gcaaccacag agtgtttggt 300

gggggtacta agctgaccgt gctg
324

<210> 67
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 67
Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val
Ser Val Ser Pro Gly Gln
5 10
15

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

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

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

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

Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr
Asp Arg Ser Gly Asn His
85 90
95

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

<210> 68
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 68
Ser Gly Asp Ala Leu Pro Gln Lys Tyr Val
Phe
1   5   10

<210> 69
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 69
Glu Asp Ser Lys Arg Pro Ser
1   5

<210> 70
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> 2.7A4_opti

<400> 70
Tyr Ser Thr Asp Arg Ser Gly Asn His Arg Val
5 10

<210> 71
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 71
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tcttgcgccg cctccggctt caccttctcc cggtactgga tgtcttgggt gcgccaggct 120

cctggcaagg gactggaatg ggtggccaac atcaaacagg atggctctga gaagtactac 180

gtggactccg tgaagggccg gttcaccatc tccagggaca acgccaagaa ctccctgtac 240

ctgcagatga actccctgag ggccgaggac accgccgtgt actactgtgc ccgggagggc 300

ggatggttcg gcgagctggc cttcgattac

tggggccagg gcaccctggt gacagtgtcc 360

tct 363

<210> 72
<211> 121
<212> PRT
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 72
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
5 10 15

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

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

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val 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 Gly Trp Phe Gly Glu Leu
Ala Phe Asp Tyr Trp Gly
100 105
110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 73
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 73
Arg Tyr Trp Met Ser
5

<210> 74
<211> 17
<212> PRT
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 74
Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val Lys
5 10 15

Gly

<210> 75
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 75
Glu Gly Gly Trp Phe Gly Glu Leu Ala Phe Asp Tyr
5 10

<210> 76
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 76
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ctgtctctgt ctcccggcga gagagccacc 60

ctgtcttgcc gggcctccca gcgggtgtcc
tcctcctacc tggcctggta tcagcagaaa 120

cccggacagg cccctaggct gctgatctac
gacgcctcct ccagagccac cggcatccct 180

gaccggttct ccggctctgg ctccggcacc
gacttcaccc tgaccatctc ccggctggaa 240

cctgaggact ttgccgtgta ttactgccag
cagtacggct ccctgccttg gaccttcggc 300

cagggaacca aggtggagat caaa
324

<210> 77
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 77
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr
Leu Ser Leu Ser Pro Gly
                5   10
               15

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

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

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

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

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

95

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

<210> 78
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 78
Arg Ala Ser Gln Arg Val Ser Ser Ser Tyr Leu Ala
5 10

<210> 79
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 79
Asp Ala Ser Ser Arg Ala Thr

<210> 80
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> 2.14H9_opti

<400> 80
Gln Gln Tyr Gly Ser Leu Pro Trp Thr
5