SEQUENCE LISTING

<110> Macrogenics, Inc.

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<130> 11183-014-228

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<151> 2004-04-16

<150> US 60/582,044
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<223> 2B6 Heavy chain variable region - CDR2

<400> 2
Val Ile Asp Pro Ser Asp Thr Tyr Pro Asn Tyr Asn Lys Lys Phe Lys
1 5 10 15
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<210> 3
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<213> Artificial sequence

<220>
<223> 2B6 Heavy chain variable region - CDR3

<400> 3
Asn Gly Asp Ser Asp Tyr Tyr Ser Gly Met Asp Tyr
1 5 10

<210> 4
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<220>
<223> Framework sequence from human germline VH1-18 and JH6 - FR1

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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 Thr Phe Thr
20 25 30

<210> 5
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<220>
<223> Framework sequence from human germline VH1-18 and JH6 - FR2

<400> 5
Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
1 5 10

<210> 6
<211> 32
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<213> Homo sapiens

<220>
<223> Framework sequence from human germline VH1-18 and JH6 - FR3

<400> 6
Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
1 5 10 15
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20 25 30

<210> 7
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Framework sequence from human germline VH1-18 and JH6 - FR4

<400> 7
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 8
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<212> PRT
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<220>
<223> 2B6 Light chain variable region - CDR1

<400> 8
Arg Thr Ser Gln Ser Ile Gly Thr Asn Ile His
1 5 10

<210> 9
<211> 7
<212> PRT
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<220>
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<400> 9
Asn Val Ser Glu Ser Ile Ser
1 5

<210> 10
<211> 7
<212> PRT
<213> Artificial sequence

<220>
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<400> 10
Tyr Val Ser Glu Ser Ile Ser
1 5

<210> 11
<211> 7
<212> PRT
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<220>
<223> 2B6 Light chain variable region - CDR2

<400> 11
Tyr Ala Ser Glu Ser Ile Ser
1 5

<210> 12
<211> 9
<212> PRT
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<220>
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<400> 12
Gln Gln Ser Asn Thr Trp Pro Phe Thr
1 5

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

<220>
<223> Framework sequence from human germline VK-A26 and JK4 - FR1

<400> 13

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
20

<210> 14
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Framework sequence from human germline VK-A26 and JK4 - FR2

<400> 14
Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys
1 5 10 15

<210> 15
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<223> Framework sequence from human germline VK-A26 and JK4 - FR3

<400> 15
Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 16
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Framework sequence from human germline VK-A26 and JK4 - FR4

<400> 16
Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 17
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<220>
<223> Humanized 2B6 light chain variable region - Hu2B6VL-1

<400> 17
gaaattgtgc tgactcagtc tccagacttt cagtctgtga ctccaaagga gaaagtcacc 60
atcacctgca ggaccagtca gagcattggc acaaacatac actggtacca gcagaaacca 120
gatcagtctc caaagctcct catcaagaat gtttctgagt ctatctctgg agtcccatcg 180
aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct 240
gaagatgctg caacgtatta ctgtcaacaa agtaatacct ggccgttcac gttcggcgga 300
gggaccaagg tggagatcaa a 321

<210> 18
<211> 107
<212> PRT
<213> Artificial sequence

<220>
<223> Humanized 2B6 light chain variable region - Hu2B6VL-1

<400> 18
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 Thr Ser Gln Ser Ile Gly Thr Asn
20 25 30
Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
35 40 45
Lys Asn Val Ser Glu 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 Asn Thr Trp Pro Phe
85 90 95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 19
<211> 321
<212> DNA
<213> Artificial sequence

<220>
<223> Humanized 2B6 light chain variable region - Hu2B6VL-2

<400> 19
gaaattgtgc tgactcagtc tccagacttt cagtctgtga ctccaaagga gaaagtcacc 60
atcacctgca ggaccagtca gagcattggc acaaacatac actggtacca gcagaaacca 120
gatcagtctc caaagctcct catcaagtat gtttctgagt ctatctctgg agtcccatcg 180
aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct 240
gaagatgctg caacgtatta ctgtcaacaa agtaatacct ggccgttcac gttcggcgga 300
gggaccaagg tggagatcaa a 321

<210> 20
<211> 107

<212> PRT
<213> Artificial sequence

<220>
<223> Humanized 2B6 light chain variable region - Hu2B6VL-2

<400> 20
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 Thr Ser Gln Ser Ile Gly Thr Asn
            20   25   30
Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
        35   40   45
Lys Tyr Val Ser Glu 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 Asn Thr Trp Pro Phe
                85   90   95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100   105

<210> 21
<211> 321
<212> DNA
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<220>
<223> Humanized 2B6 light chain variable region - Hu2B6VL-3

<400> 21
gaaattgtgc tgactcagtc tccagacttt cagtctgtga ctccaaagga gaaagtcacc 60
atcacctgca ggaccagtca gagcattggc acaaacatac actggtacca gcagaaacca 120
gatcagtctc caaagctcct catcaagtat gcttctgagt ctatctctgg agtcccatcg 180
aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct 240
gaagatgctg caacgtatta ctgtcaacaa agtaatacct ggccgttcac gttcggcgga 300
gggaccaagg tggagatcaa a   321

<210> 22
<211> 107
<212> PRT
<213> Artificial sequence

<220>
<223> Humanized 2B6 light chain variable region - Hu2B6VL-3

<400> 22
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 Thr Ser Gln Ser Ile Gly Thr Asn
            20   25   30
Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
        35   40   45
Lys Tyr Ala Ser Glu 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 Asn Thr Trp Pro Phe
                85   90   95

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

<210> 23
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<220>
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<400> 23
caggttcagc tggtgcagtc tggagctgag gtgaagaagc ctggggcctc agtgaaggtc 60
tcctgcaagg cttctggtta cacctttacc aactactgga tacactgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggagtg attgatcctt ctgatactta tccaaattac 180
aataaaaagt tcaagggcag agtcaccatg accacagaca catccacgag cacagcctac 240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagaaacggt 300
gattccgatt attactctgg tatggactac tgggggcaag ggaccacggt caccgtctcc 360
tca 363

<210> 24
<211> 121
<212> PRT
<213> Artificial sequence

<220>
<223> Humanized heavy chain variable region

<400> 24
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 Thr Phe Thr Asn Tyr
20 25 30
Trp Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Val Ile Asp Pro Ser Asp Thr Tyr Pro Asn Tyr Asn Lys Lys Phe
50 55 60
Lys Gly Arg Val Thr Met Thr Thr 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 Asn Gly Asp Ser Asp Tyr Tyr Ser Gly Met Asp Tyr Trp Gly
100 105 110
Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 25
<211> 321
<212> DNA
<213> mus sp.

<220>
<223> Mouse 2B6 light chain variable region

<400> 25
gacatcttgc tgactcagtc tccagccatc ctgtctgtga gtccaggaga gagagtcagt 60
ttttcctgca ggaccagtca gagcattggc acaaacatac actggtatca gcaaagaaca 120
aatggttttc caaggcttct cataaagaat gtttctgagt ctatctctgg gatcccttcc 180
aggtttagtg gcagtggatc agggacagat tttattctta gcatcaacag tgtggagtct 240

gaagatattg cagattatta ttgtcaacaa agtaatacct ggccgttcac gttcggaggg 300
gggaccaagc tggaaataaa a 321

<210> 26
<211> 107
<212> PRT

<213> mus sp.

<220>
<223> Mouse 2B6 light chain variable region

<400> 26
Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
1 5 10 15
Glu Arg Val Ser Phe Ser Cys Arg Thr Ser Gln Ser Ile Gly Thr Asn
20 25 30
Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Phe Pro Arg Leu Leu Ile
35 40 45
Lys Asn Val Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Ile Leu Ser Ile Asn Ser Val Glu Ser
65 70 75 80
Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser Asn Thr Trp Pro Phe
85 90 95
Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 27
<211> 363
<212> DNA
<213> mus sp.

<220>
<223> Mouse 2B6 heavy chain variable region

<400> 27
caggtccaat tgcagcagcc tgtgactgag ctggtgaggc cgggggcttc agtgatgttg 60
tcctgcaagg cttctgacta ccccttcacc aactactgga tacactgggt aaagcagagg 120
cctggacaag gcctggagtg gatcggagtg attgatcctt ctgatactta tccaaattac 180
aataaaaagt tcaagggcaa ggccacattg actgtagtcg tatcctccag cacagcctac 240
atgcagctca gcagcctgac atctgacgat tctgcggtct attactgtgc aagaaacggt 300
gattccgatt attactctgg tatggactac tggggtcaag gaacctcagt caccgtctcc 360
tca 363

<210> 28
<211> 121
<212> PRT
<213> mus sp.

<220>
<223> Mouse 2B6 heavy chain variable region

<400> 28
Gln Val Gln Leu Gln Gln Pro Val Thr Glu Leu Val Arg Pro Gly Ala
1 5 10 15
Ser Val Met Leu Ser Cys Lys Ala Ser Asp Tyr Pro Phe Thr Asn Tyr
20 25 30
Trp Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile

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        35                  40                  45
Gly Val Ile Asp Pro Ser Asp Thr Tyr Pro Asn Tyr Asn Lys Lys Phe
    50                  55                  60
Lys Gly Lys Ala Thr Leu Thr Val Val Val Ser Ser Ser Thr Ala Tyr
65                  70                  75                  80
Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Tyr Cys
                85                  90                  95
Ala Arg Asn Gly Asp Ser Asp Tyr Tyr Ser Gly Met Asp Tyr Trp Gly
            100                 105                 110
Gln Gly Thr Ser Val Thr Val Ser Ser
        115                 120
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<210> 29
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Heavy Chain Variable region - CDR1

<400> 29
Asp Ala Trp Met Asp
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<210> 30
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Heavy Chain Variable region - CDR2

<400> 30
Glu Ile Arg Asn Lys Ala Asn Asn Leu Ala Thr Tyr Tyr Ala Glu Ser
 1   5   10   15
Val Lys Gly

<210> 31
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Heavy Chain Variable region - CDR3

<400> 31
Tyr Ser Pro Phe Ala Tyr
 1   5

<210> 32
<211> 30
<212> PRT
<213> Artificial Sequence

<220>

<223> 3H7 Heavy Chain Variable region - FWR1

<400> 32
Glu Val Lys Phe Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
20 25 30

<210> 33
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Heavy Chain Variable region - FWR2

<400> 33
Trp Val Arg Gln Gly Pro Glu Lys Gly Leu Glu Trp Val Ala
1 5 10

<210> 34
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Heavy Chain Variable region - FWR3

<400> 34
Arg Phe Thr Ile Pro Arg Asp Asp Ser Lys Ser Ser Val Tyr Leu His
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Gly Ile Tyr Tyr Cys
20 25 30

<210> 35
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Heavy Chain Variable region - FWR4

<400> 35
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
1 5 10

<210> 36
<211> 345
<212> DNA
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<220>
<223> mouse 3H7 Heavy Chain Variable Region

<400> 36
gaagtgaagt ttgaggagtc tggaggaggc ttggtgcaac ctggaggatc catgaaactc 60

tcttgtgctg cctctggatt cacttttagt gacgcctgga tggactgggt ccgccagggt 120
ccagagaagg ggcttgagtg ggttgctgaa attagaaaca aagctaataa tcttgcaaca 180
tactatgctg agtctgtgaa agggaggttc accatcccaa gagatgattc caaaagtagt 240
gtctacctgc acatgaacag cttaagagct gaagacactg gcatttatta ctgttatagt 300
ccctttgctt actggggcca agggactctg gtcactgtct ctgca 345

<210> 37
<211> 115
<212> PRT
<213> mus sp.

<220>
<223> mouse 3H7 Heavy Chain Variable Region

<400> 37
Glu Val Lys Phe Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Ala
20 25 30
Trp Met Asp Trp Val Arg Gln Gly Pro Glu Lys Gly Leu Glu Trp Val
35 40 45
Ala Glu Ile Arg Asn Lys Ala Asn Asn Leu Ala Thr Tyr Tyr Ala Glu
50 55 60
Ser Val Lys Gly Arg Phe Thr Ile Pro Arg Asp Asp Ser Lys Ser Ser
65 70 75 80
Val Tyr Leu His Met Asn Ser Leu Arg Ala Glu Asp Thr Gly Ile Tyr
85 90 95
Tyr Cys Tyr Ser Pro Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110
Val Ser Ala
115

<210> 38
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Light Chain Variable region - CDR1

<400> 38
Arg Ala Ser Gln Glu Ile Ser Gly Tyr Leu Ser
1 5 10

<210> 39
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Light Chain Variable region - CDR2

<400> 39
Ala Ala Ser Thr Leu Asp Ser
1 5

<210> 40
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Light Chain Variable region - CDR3

<400> 40
Leu Gln Tyr Val Ser Tyr Pro Tyr Thr
1 5

<210> 41
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Light Chain Variable region - FWR1

<400> 41
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15
Glu Arg Val Ser Leu Thr Cys
20

<210> 42

<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Light Chain Variable region - FWR2

<400> 42
Trp Leu Gln Gln Lys Pro Asp Gly Thr Ile Arg Arg Leu Ile Tyr
1 5 10 15

<210> 43
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> 3H7 Light Chain Variable region - FWR3

<400> 43
Gly Val Pro Lys Arg Phe Ser Gly Ser Trp Ser Gly Ser Asp Tyr Ser
1 5 10 15
Leu Thr Ile Ser Ser Leu Glu Ser Glu Asp Phe Ala Asp Tyr Tyr Cys
20 25 30

<210> 44
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> 3H7 Light Chain Variable region - FWR4

<400> 44
Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 45
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<212> DNA
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<220>
<223> mouse 3H7 Light Chain Variable Region

<400> 45
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gatggaacta ttagacgcct gatctacgcc gcatccactt tagattctgg tgtcccaaaa 180
aggttcagtg gcagttggtc tgggtcagat tattctctca ccatcagcag ccttgagtct 240
gaagattttg cagactatta ctgtctacaa tatgttagtt atccgtatac gttcggaggg 300
gggaccaagc tggaaataaa a 321

<210> 46
<211> 107
<212> PRT
<213> mus sp.

<220>
<223> mouse 3H7 Light Chain Variable Region

<400> 46
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15
Glu Arg Val Ser Leu Thr Cys Arg Ala Ser Gln Glu Ile Ser Gly Tyr
20 25 30
Leu Ser Trp Leu Gln Gln Lys Pro Asp Gly Thr Ile Arg Arg Leu Ile
35 40 45
Tyr Ala Ala Ser Thr Leu Asp Ser Gly Val Pro Lys Arg Phe Ser Gly
50 55 60
Ser Trp Ser Gly Ser Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80
Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Gln Tyr Val Ser Tyr Pro Tyr
85 90 95
Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 47
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer - SJ15R

<400> 47
ggtcactgtc actggctcag gg 22

<210> 48
<211> 28
<212> DNA
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<220>
<223> Primer - SJ16R

<400> 48
aggcggatcc aggggccagt ggatagac 28

<210> 49
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer - SJ17R

<400> 49
gcacacgact gaggcacctc cagatg 26

<210> 50
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer - SJ18R

<400> 50
cggcggatcc gatggataca gttggtgcag catc 34

<210> 51
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Fusion protein - partial sequence

<400> 51
Lys Lys Phe Ser Arg Ser Asp Pro Asn
1 5

<210> 52
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Fusion protein - partial sequence

<400> 52
Gln Lys Phe Ser Arg Leu Asp Pro Asn
1 5

<210> 53
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> Fusion protein - partial sequence

<400> 53
Gln Lys Phe Ser Arg Leu Asp Pro Thr
1 5

<210> 54
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Fusion protein - partial sequence

<400> 54
Lys Lys Phe Ser Arg Leu Asp Pro Thr
1 5

<210> 55
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Fusion protein - partial sequence

<400> 55
Gln Lys Phe Ser His Leu Asp Pro Thr
1 5

<210> 56
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<212> PRT
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<220>
<223> Fusion protein - partial sequence

<400> 56
Lys Lys Phe Ser His Leu Asp Pro Thr
1 5

<210> 57
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<212> PRT
<213> Artificial Sequence

<220>
<223> Fusion protein - partial sequence

<400> 57

Ala Pro Ser Ser Ser
1 5

<210> 58
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<220>
<223> Fusion protein - partial sequence

<400> 58
Val Pro Ser Met Gly Ser Ser Ser
1 5