

298068-00340_Sequence_Listing(105425192)
SEQUENCE LISTING

<110> CELGENE CORPORATION
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<120> BCMA-BINDING ANTIBODIES AND USES THEREOF

<130> 298068-00340

<140> US 16/971,925

<141> 2020-08-21

<150> PCT/US2019/018698

<151> 2019-02-20

<150> 62/633,152

<151> 2018-02-21

<160> 68

<170> PatentIn version 3.5

<210> 1

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

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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 Val Ser Ser Asn
20 25 30

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

Tyr Gly Ala Ser Thr Arg Ala 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 Tyr Asn Asn Trp Pro Trp
85 90 95

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

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<211> 11

<212> PRT

<213> Artificial Sequence

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 Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala
 1 5 10

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<220>
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Gly Ala Ser Thr Arg Ala Thr
 1 5

<210> 4
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<220>
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Gln Gln Tyr Asn Asn Trp Pro Trp Thr
 1 5

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<220>
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 ctgagctgtc gcgcgtcaca gtcggtgtcc tccaacctcg cctggtacca gcagaagcct 120
 ggacaggccc caagactgct gatctacggc gcctccaccc gggccaccgg gattcctgcc 180
 cggttctccg gtcctcggtc cggcactgag ttcaccctga ccatcagctc actgcagtcc 240
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 ggaaccaagg tcgaaatcaa g 321

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<220>
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<400> 6

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

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

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

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

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Leu
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 Pro Tyr Tyr Asp Ser Ser Gly Tyr Tyr Tyr Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 7

<211> 7

<212> PRT

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<220>

<223> Synthetic peptide

<400> 7

Ser Ser Ser Tyr Tyr Trp Gly
1 5

<210> 8

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 8

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

<210> 9

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 9

Pro Tyr Tyr Asp Ser Ser Gly Tyr Tyr Tyr Tyr
1 5 10

<210> 10

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<212> PRT

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<220>

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<400> 10

Gly Gly Ser Ile Arg Ser Ser Ser Tyr
1 5

<210> 11

<211> 5

<212> PRT

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<220>

<223> Synthetic peptide

<400> 11

Tyr Tyr Ser Gly Ser
1 5

<210> 12

<211> 11

<212> PRT

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<220>

<223> Synthetic peptide

<400> 12

Pro Tyr Tyr Asp Ser Ser Gly Tyr Tyr Tyr Tyr
1 5 10

<210> 13

<211> 12

<212> PRT

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<220>

<223> Synthetic peptide

<400> 13

Gly Gly Ser Ile Arg Ser Ser Ser Tyr Tyr Trp Gly
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<211> 16

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298068-00340_Sequence_Listing(105425192)

<220>
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<400> 14

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

<210> 15
<211> 11
<212> PRT
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<400> 15

Pro Tyr Tyr Asp Ser Ser Gly Tyr Tyr Tyr Tyr
1 5 10

<210> 16
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cagccccag ggaaggggct ggagtggatt gggactatct attatagtgg gagcacctac 180
tacaaccgt ccctcaagag tcgagtcacc atatccgtag acacgtccaa gaaccagctc 240
tccctgaagc tgagctctgt gaccgccgca gacacggctg tgtattactg tgcgagacct 300
tactatgata gtagtggta ttactactac tggggccagg gcaccctggt caccgtctcc 360
tca 363

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<220>
<223> Synthetic polypeptide

<400> 17

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

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

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

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Trp Ile Gly Arg Ile Tyr Tyr Ser Gly Ile Thr His Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val 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 Ser Pro Tyr Lys Trp Asn Asp Gly Asn Phe Phe Gly Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 18
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<212> PRT
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<220>
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<400> 18

Ser Ser Asn Ser Tyr Trp Gly
1 5

<210> 19
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 19

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

<210> 20
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 20

Pro Tyr Lys Trp Asn Asp Gly Asn Phe Phe Gly
1 5 10

<210> 21
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<213> Artificial Sequence

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<220>

<223> Synthetic peptide

<400> 21

Gly Gly Ser Ile Ser Ser Ser Asn Ser
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<210> 22

<211> 5

<212> PRT

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<223> Synthetic peptide

<400> 22

Tyr Tyr Ser Gly Ile
1 5

<210> 23

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 23

Pro Tyr Lys Trp Asn Asp Gly Asn Phe Phe Gly
1 5 10

<210> 24

<211> 12

<212> PRT

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<223> Synthetic peptide

<400> 24

Gly Gly Ser Ile Ser Ser Ser Asn Ser Tyr Trp Gly
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<210> 25

<211> 16

<212> PRT

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<220>

<223> Synthetic peptide

<400> 25

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

<210> 26

<211> 11

298068-00340_Sequence_Listing(105425192)

<212> PRT
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<220>
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<400> 26

Pro Tyr Lys Trp Asn Asp Gly Asn Phe Phe Gly
1 5 10

<210> 27
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cagtccccag ggagggggct ggagtggatt gggaggatct attatagtgg gatcaccac 180
tacaaccgt ccctcaagag tcgagtcacc atatccgtag acacgtcaa gaaccagttc 240
tccctgaagc tgagctctgt gaccgccgca gacacggctg tgtattactg tgcgagtccg 300
tataagtgga acgacgggaa tttttttggt tggggccagg gcaccctggt caccgtctcc 360
tca 363

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<213> Artificial Sequence

<220>
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<400> 28

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

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

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

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

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

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

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Cys Ala Arg Pro Asp Tyr Tyr Gly Ser Gly Thr Ile Ala Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 29
<211> 7
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<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 29

Asn Ser Asn Tyr Tyr Trp Gly
1 5

<210> 30
<211> 16
<212> PRT
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<220>
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<400> 30

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

<210> 31
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 31

Pro Asp Tyr Tyr Gly Ser Gly Thr Ile Ala
1 5 10

<210> 32
<211> 9
<212> PRT
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<220>
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<400> 32

Gly Gly Ser Ile Ser Asn Ser Asn Tyr
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<210> 33
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298068-00340_Sequence_Listing(105425192)

<212> PRT
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<220>
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<400> 33

Tyr Tyr Ser Gly Arg
1 5

<210> 34
<211> 10
<212> PRT
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<220>
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<400> 34

Pro Asp Tyr Tyr Gly Ser Gly Thr Ile Ala
1 5 10

<210> 35
<211> 12
<212> PRT
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<220>
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<400> 35

Gly Gly Ser Ile Ser Asn Ser Asn Tyr Tyr Trp Gly
1 5 10

<210> 36
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 36

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

<210> 37
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 37

Pro Asp Tyr Tyr Gly Ser Gly Thr Ile Ala
1 5 10

298068-00340_Sequence_Listing(105425192)

<210> 38
 <211> 360
 <212> DNA
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<220>
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 cagccccag gaaaggggct ggagtggatt gggaatatct attatagtgg gagaacctat 180
 tacaccccg tccctcaagag tcgcgtcacc atatccgaag acacgtccaa gaaccagttc 240
 tccctgaagg tgaggtctgt gaccgtcgca gacacgggtg tgtattactg tgcgagaccg 300
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<210> 39
 <211> 121
 <212> PRT
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<220>
 <223> Synthetic polypeptide

<400> 39
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Asp
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
 20 25 30
 Asn Ser Tyr Trp Gly Trp Ile Arg Gln Ser Pro Gly Arg Gly Leu Glu
 35 40 45
 Trp Ile Gly Arg Ile Tyr Tyr Ser Gly Ile Thr His Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Val Thr Ile Ser Val 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 Ser Pro Tyr Lys Trp Asn Asp Gly Asn Phe Phe Gly Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 40
 <211> 7
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298068-00340_Sequence_Listing(105425192)

<220>
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<400> 40

Ser Ser Asn Ser Tyr Trp Gly
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<210> 41
<211> 16
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<220>
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<400> 41

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

<210> 42
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 42

Pro Tyr Lys Trp Asn Asp Gly Asn Phe Phe Gly
1 5 10

<210> 43
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 43

Gly Gly Ser Ile Ser Ser Ser Asn Ser Tyr
1 5 10

<210> 44
<211> 5
<212> PRT
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<220>
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<400> 44

Tyr Tyr Ser Gly Ile
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<210> 45
<211> 11

298068-00340_Sequence_Listing(105425192)

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 45

Pro Tyr Lys Trp Asn Asp Gly Asn Phe Phe Gly
1 5 10

<210> 46
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<400> 46

Gly Gly Ser Ile Ser Ser Ser Asn Ser Tyr Trp Gly
1 5 10

<210> 47
<211> 16
<212> PRT
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<220>
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<400> 47

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

<210> 48
<211> 11
<212> PRT
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<220>
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<400> 48

Pro Tyr Lys Trp Asn Asp Gly Asn Phe Phe Gly
1 5 10

<210> 49
<211> 363
<212> DNA
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<220>
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acctgcactg tctctggtgg ctccatcagc agtagtaatt cctactgggg ctggatccgc 120
cagtccccag ggagggggct ggagtggatt gggaggatct attatagtgg gatcaccac 180

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tacaacccgt ccctcaagag tcgagtcacc atatccgtag acacgtccaa gaaccagttc	240
tccctgaagc tgagctctgt gactgccgcg gacacggctg tgtattactg tgcgagtcgg	300
tataagtgga acgacgggaa tttttttggt tggggccagg gcaccctggt caccgtctcc	360
tca	363

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<220>
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<400> 50

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

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

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

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

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

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

Cys Ala Arg Pro Ser Gly Tyr Thr Thr Ser Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
 115

<210> 51
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic peptide

<400> 51

Arg Ser Asn Tyr Tyr Trp Gly
 1 5

<210> 52
 <211> 16

298068-00340_Sequence_Listing(105425192)

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 52

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

<210> 53
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 53

Pro Ser Gly Tyr Thr Thr Ser
1 5

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

<220>
<223> Synthetic peptide

<400> 54

Gly Ser Ser Ile Ser Arg Ser Asn Tyr
1 5

<210> 55
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 55

Tyr Tyr Ser Gly Thr
1 5

<210> 56
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<400> 56

Pro Ser Gly Tyr Thr Thr Ser
1 5

298068-00340_Sequence_Listing(105425192)

<210> 57
<211> 12
<212> PRT
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<220>
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<400> 57

Gly Ser Ser Ile Ser Arg Ser Asn Tyr Tyr Trp Gly
1 5 10

<210> 58
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 58

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

<210> 59
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<400> 59

Pro Ser Gly Tyr Thr Thr Ser
1 5

<210> 60
<211> 351
<212> DNA
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<220>
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acctgcactg tctctggaag ctccatcagc aggagtaatt actactgggg ctggatccgc 120
cagccccccag ggaagggctt ggagtggatt gggactttct attatagtgg gaccacctac 180
tacaaccctg ccctcaagag tcgagtcacc atatccgaag acacgtccaa gaaacagtta 240
tccctgaacc tgaggtctgt gaccgccgca gacacggctg tgtattactg tgcgagacct 300
tccggatata ccaccagctg gggccagggc accctgggtca ccgtctcctc a 351

<210> 61
<211> 36
<212> PRT
<213> Homo sapiens

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<400> 61

Pro Glu Pro Cys Pro Asp Ser Asp Phe Leu Leu Trp Ile Leu Ala Ala
1 5 10 15

Val Ser Ser Gly Leu Phe Phe Tyr Ser Phe Leu Leu Thr Ala Val Ser
20 25 30

Leu Ser Lys Met
35

<210> 62

<211> 29

<212> PRT

<213> Homo sapiens

<400> 62

Pro Asp Ser Asp Phe Leu Leu Trp Ile Leu Ala Ala Val Ser Ser Gly
1 5 10 15

Leu Phe Phe Tyr Ser Phe Leu Leu Thr Ala Val Ser Leu
20 25

<210> 63

<211> 23

<212> PRT

<213> Homo sapiens

<400> 63

Phe Leu Leu Trp Ile Leu Ala Ala Val Ser Ser Gly Leu Phe Phe Tyr
1 5 10 15

Ser Phe Leu Leu Thr Ala Val
20

<210> 64

<211> 21

<212> PRT

<213> Homo sapiens

<400> 64

Phe Leu Leu Trp Ile Leu Ala Ala Val Ser Ser Gly Leu Phe Phe Tyr
1 5 10 15

Ser Phe Leu Leu Thr
20

<210> 65

<211> 26

<212> PRT

<213> Mus musculus

<400> 65

Phe Leu Leu Trp Ile Leu Val Ala Val Ser Leu Gly Leu Phe Phe Tyr
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1

5

10

15

Ser Phe Leu Val Ser Ala Val Ser Leu Ser
20 25

<210> 66
<211> 29
<212> PRT
<213> Homo sapiens

<400> 66

Thr Leu Val Val Gly Val Val Gly Gly Leu Leu Gly Ser Leu Val Leu
1 5 10 15

Leu Val Trp Val Leu Ala Val Ile Cys Ser Arg Ala Ala
20 25

<210> 67
<211> 21
<212> PRT
<213> Homo sapiens

<400> 67

Val Gly Val Val Gly Gly Leu Leu Gly Ser Leu Val Leu Leu Val Trp
1 5 10 15

Val Leu Ala Val Ile
20

<210> 68
<211> 26
<212> PRT
<213> Homo sapiens

<400> 68

Phe Gln Thr Leu Val Val Gly Val Val Gly Gly Leu Leu Gly Ser Leu
1 5 10 15

Val Leu Leu Val Trp Val Leu Ala Val Ile
20 25