

SEQUENCE LISTING

<110> GUANGDONG TCR CURE BIOPHARMA TECHNOLOGY CO., LTD.
TCR CURE BIOPHARMA CORP.

<120> TCR-T CELL THERAPY TARGETING EPSTEIN-BARR VIRUS

<130> 49159-0007US1

<150> PCT/CN2021/098487

<151> 2021-06-04

<150> PCT/CN2020/094628

<151> 2020-06-05

<160> 225

<170> PatentIn version 3.5

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1

Thr Ser Ile Asn Asn

1 5

<210> 2

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 2

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 3

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 3

Cys Ala Thr Thr Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe
1 5 10

<210> 4

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 4

Met Asn His Glu Tyr
1 5

<210> 5

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 5

Ser Val Gly Ala Gly Ile
1 5

<210> 6

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 6

Cys Ala Ser Thr Arg Gln Gly Gly Asn Glu Gln Phe Phe
1 5 10

<210> 7

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 7

Thr Ser Ile Asn Asn

1 5

<210> 8

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 8

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 9

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 9

Cys Ala Thr Glu Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe

1 5 10

<210> 10

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 10

Met Asn His Glu Tyr

1 5

<210> 11

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 11

Ser Val Gly Ala Gly Ile

1 5

<210> 12

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 12

Cys Ala Ser Ser Tyr Gln Gly Gly Asn Tyr Gly Tyr Thr Phe

1 5 10

<210> 13

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 13

Thr Ser Ile Asn Asn

1 5

<210> 14

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 14

Ile Arg Ser Asn Glu Arg Glu
1 5

<210> 15

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 15

Cys Ala Thr Glu Gly Gly Ser Gly Tyr Ser Thr Leu Thr Phe
1 5 10

<210> 16

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 16

Met Asn His Glu Tyr
1 5

<210> 17

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 17

Ser Val Gly Ala Gly Ile
1 5

<210> 18

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 18

Cys Ala Ser Asn Thr Gln Gly Gly His Tyr Gly Tyr Thr Phe
1 5 10

<210> 19

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 19

Thr Ser Ile Asn Asn
1 5

<210> 20

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 20

Ile Arg Ser Asn Glu Arg Glu
1 5

<210> 21

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

peptide<400> 21

Cys Ala Thr Gln Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe
1 5 10

<210> 22<211> 5<212> PRT<213> Artificial Sequence<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 22

Met Asn His Glu Tyr
1 5

<210> 23<211> 6<212> PRT<213> Artificial Sequence<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 23

Ser Val Gly Ala Gly Ile
1 5

<210> 24<211> 15<212> PRT<213> Artificial Sequence<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 24

Cys Ala Ser Ser Tyr Gln Gly Gly Thr Arg Asn Gly Tyr Thr Phe
1 5 10 15

<210> 25<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 25

Thr Ser Ile Asn Asn

1 5

<210> 26

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 26

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 27

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 27

Cys Ala Thr Val Gly Asn Ser Gly Tyr Ser Thr Leu Thr Phe

1 5 10

<210> 28

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 28

Met Asn His Glu Tyr

1 5

<210> 29

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 29

Ser Val Gly Ala Gly Ile

1 5

<210> 30

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 30

Cys Ala Ser Ser Gly Gln Gly Gly Ser Asp Gly Tyr Thr Phe

1 5 10

<210> 31

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 31

Thr Ser Ile Asn Asn

1 5

<210> 32

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 32

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 33

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 33

Cys Ala Thr Asn Gly Glu Ser Gly Tyr Ser Thr Leu Thr Phe

1 5 10

<210> 34

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 34

Met Asn His Glu Tyr

1 5

<210> 35

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 35

Ser Val Gly Ala Gly Ile

1 5

<210> 36

<211> 14<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 36

Cys	Ala	Ser	Ser	Thr	Gln	Gly	Gly	Gly	Asp	Gly	Tyr	Thr	Phe
<u>1</u>				<u>5</u>					<u>10</u>				

<210> 37<211> 5<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 37

Thr	Ser	Ile	Asn	Asn
<u>1</u>			<u>5</u>	

<210> 38<211> 7<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 38

Ile	Arg	Ser	Asn	Glu	Arg	Glu
<u>1</u>				<u>5</u>		

<210> 39<211> 14<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 39

Cys Ala Tyr Glu Gly Asn Ser Gly Tyr Ser Thr Leu Thr Phe
1 5 10

<210> 40

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 40

Met Asn His Glu Tyr

1 5

<210> 41

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 41

Ser Val Gly Ala Gly Ile

1 5

<210> 42

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 42

Cys Ala Ser Ser Thr Gln Gly Gly Ala Asp Gly Tyr Thr Phe

1 5 10

<210> 43

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 43

Thr Ser Ile Asn Asn

1 5

<210> 44

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 44

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 45

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 45

Cys Ala Thr Glu Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe

1 5 10

<210> 46

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 46

Met Asn His Glu Tyr

1 5

<210> 47

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 47

Ser Val Gly Ala Gly Ile

1 5

<210> 48

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 48

Cys Ala Ser Arg Val Gln Gly Gly Ile Glu Gly Tyr Thr Phe

1 5 10

<210> 49

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 49

Thr Ser Ile Asn Asn

1 5

<210> 50

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 50

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 51

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 51

Cys Ala Thr Glu Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe

1 5 10

<210> 52

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 52

Met Asn His Glu Tyr

1 5

<210> 53

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 53

Ser Val Gly Ala Gly Ile

1 5

<210> 54

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 54

Cys Ala Ser Asn Gln Gln Gly Gly Gly Tyr Gly Tyr Thr Phe

1 5 10

<210> 55

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 55

Thr Ser Ile Asn Asn
1 5

<210> 56

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 56

Ile Arg Ser Asn Glu Arg Glu
1 5

<210> 57

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 57

Cys Ala Thr Glu Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe
1 5 10

<210> 58<211> 5<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 58Met Asn His Glu Tyr1 5<210> 59<211> 6<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 59Ser Val Gly Ala Gly Ile1 5<210> 60<211> 14<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 60Cys Ala Ser Arg Val Gln Gly Gly Ile Glu Gly Tyr Thr Phe1 5 10<210> 61<211> 5<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide

<400> 61

Thr Ser Ile Asn Asn

1 5

<210> 62

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 62

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 63

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 63

Cys Ala Thr Glu Gly Gly Ser Gly Tyr Ser Thr Leu Thr Phe

1 5 10

<210> 64

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 64

Met Asn His Glu Tyr

1 5

<210> 65

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 65

Ser Val Gly Ala Gly Ile
1 5

<210> 66

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 66

Cys Ala Ser Ser Phe Gln Gly Gly Gly Asn Tyr Gly Tyr Thr Phe
1 5 10 15

<210> 67

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 67

Thr Ser Ile Asn Asn
1 5

<210> 68

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 68

Ile Arg Ser Asn Glu Arg Glu
1 5

<210> 69

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 69

Cys Ala Thr Glu Gly Gly Ser Gly Tyr Ser Thr Leu Thr Phe
1 5 10

<210> 70

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 70

Met Asn His Glu Tyr
1 5

<210> 71

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 71

Ser Val Gly Ala Gly Ile
1 5

<210> 72

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

peptide<400> 72

Cys Ala Ser Ser Ser Gln Gly Gly Trp Asn Tyr Gly Tyr Thr Phe
1 5 10 15

<210> 73<211> 5<212> PRT<213> Artificial Sequence<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 73

Thr Ser Ile Asn Asn
1 5

<210> 74<211> 7<212> PRT<213> Artificial Sequence<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 74

Ile Arg Ser Asn Glu Arg Glu
1 5

<210> 75<211> 14<212> PRT<213> Artificial Sequence<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 75

Cys Ala Pro Leu Gly Glu Ala Gly Tyr Ser Thr Leu Thr Phe
1 5 10

<210> 76<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 76

Met Asn His Glu Tyr

1 5

<210> 77

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 77

Ser Val Gly Ala Gly Ile

1 5

<210> 78

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 78

Cys Ala Ser Ser Arg Gln Gly Ser Tyr Asn Glu Gln Phe Phe

1 5 10

<210> 79

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 79

Thr Ser Ile Asn Asn

1 5

<210> 80

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 80

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 81

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 81

Cys Ala Thr Val Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe

1 5 10

<210> 82

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 82

Met Asn His Glu Tyr

1 5

<210> 83

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 83

Ser Val Gly Ala Gly Ile

1 5

<210> 84

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 84

Cys Ala Ser Asn Pro Gln Gly Gly Ser Ile Gly Tyr Thr Phe

1 5 10

<210> 85

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 85

Thr Ser Ile Asn Asn

1 5

<210> 86

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 86

Ile Arg Ser Asn Glu Arg Glu

1 5

<210> 87

<211> 14<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 87

Cys	Ala	Thr	Glu	Gly	Gly	Ser	Gly	Tyr	Ser	Thr	Leu	Thr	Phe
<u>1</u>				<u>5</u>					<u>10</u>				

<210> 88<211> 5<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 88

Met	Asn	His	Glu	Tyr
<u>1</u>			<u>5</u>	

<210> 89<211> 6<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 89

Ser	Val	Gly	Ala	Gly	Ile
<u>1</u>			<u>5</u>		

<210> 90<211> 13<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 90

Cys Ala Ser Thr Arg Gln Gly Gly Asn Glu Gln Phe Phe
1 5 10

<210> 91

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 91

Thr Thr Leu Ser Asn

1 5

<210> 92

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 92

Leu Val Lys Ser Gly Glu Val

1 5

<210> 93

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 93

Cys Ala Asp Pro Asp Gly Leu Ile Phe

1 5

<210> 94

<211> 5

<212> PRT

<213> Artificial Sequence

<220><223> Description of Artificial Sequence: Synthetic peptide<400> 94Ser Gly His Asn Ser1 5<210> 95<211> 6<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 95Phe Asn Asn Asn Val Pro1 5<210> 96<211> 15<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 96Cys Ala Ser Ser Leu Gly Ala Gly Ala Gly Tyr Gly Tyr Thr Phe1 5 10 15<210> 97<211> 5<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 97Asp Ser Val Asn Asn1 5

<210> 98
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 98
Ile Pro Ser Gly Thr
1 5

<210> 99
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 99
Cys Ala Val Asp Gly Gly Asn Lys Leu Val Phe
1 5 10

<210> 100
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 100
Ser Gly His Asn Ser
1 5

<210> 101
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 101Phe Asn Asn Asn Val Pro1 5<210> 102<211> 15<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 102Cys Ala Ser Ser Leu Gly Ala Gly Ser Gly Trp Glu Gln Tyr Phe1 5 10 15<210> 103<211> 6<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 103Asn Tyr Ser Pro Ala Tyr1 5<210> 104<211> 7<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 104Ile Arg Glu Asn Glu Lys Glu1 5<210> 105<211> 9<212> PRT<213> Artificial Sequence

<220><223> Description of Artificial Sequence: Synthetic peptide<400> 105Cys Leu Arg Asn Thr Pro Leu Val Phe1 5<210> 106<211> 5<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 106Ser Gly His Ala Thr1 5<210> 107<211> 6<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 107Phe Gln Asn Asn Gly Val1 5<210> 108<211> 13<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 108Cys Ala Ser Ser Leu Val Pro Glu Glu Thr Gln Tyr Phe1 5 10

<210> 109

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 109

Asn Ser Ala Ser Gln Ser

1 5

<210> 110

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 110

Val Tyr Ser Ser Gly Asn

1 5

<210> 111

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 111

Cys Val Val Arg Gly Tyr Asn Phe Asn Lys Phe Tyr Phe

1 5 10

<210> 112

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 112Asp Phe Gln Ala Thr Thr1 5<210> 113<211> 7<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 113Ser Asn Glu Gly Ser Lys Ala1 5<210> 114<211> 18<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 114Cys Ser Ala Arg Gly Pro Gly Glu Arg Glu Ala Asn Thr Asp Thr Gln1 5 10 15Tyr Phe<210> 115<211> 6<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 115Asn Ser Ala Ser Gln Ser1 5

<210> 116

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 116

Val Tyr Ser Ser Gly Asn

1 5

<210> 117

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 117

Cys Val Val Arg Gly Tyr Asn Phe Asn Lys Phe Tyr Phe

1 5 10

<210> 118

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 118

Asp Phe Gln Ala Thr Thr

1 5

<210> 119

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 119

Ser Asn Glu Gly Ser Lys Ala

1 5

<210> 120

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 120

Cys Ser Ala Arg Gly Pro Arg Ile Thr Asp Ser Ser Thr Asp Thr Gln

1 5 10 15

Tyr Phe

<210> 121

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 121

Thr Thr Leu Ser Asn

1 5

<210> 122

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 122

Leu Val Lys Ser Gly Glu Val

1 5

<210> 123<211> 12<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 123Cys Ala Arg Phe Ser Asp Gly Gln Lys Leu Leu Phe1510<210> 124<211> 5<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 124Met Asn His Asn Tyr15<210> 125<211> 6<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide<400> 125Ser Val Gly Ala Gly Ile15<210> 126<211> 16<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic peptide

<400> 126

Cys Ala Ser Ser Cys Arg Gly Arg Gly Asp Cys Thr Glu Ala Phe Phe
1 5 10 15

<210> 127

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 127

Asn Ser Ala Phe Gln Tyr
1 5

<210> 128

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 128

Thr Tyr Ser Ser Gly Asn
1 5

<210> 129

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 129

Cys Ala Met Ser Ala Trp Ala Ser Lys Ile Ile Phe
1 5 10

<210> 130

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 130

Lys Gly His Asp Arg
1 5

<210> 131

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 131

Ser Phe Asp Val Lys Asp
1 5

<210> 132

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 132

Cys Ala Thr Ser Glu Lys Gly Thr Gly Arg Gln Glu Thr Gln Tyr Phe
1 5 10 15

<210> 133

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 133

Thr Thr Leu Ser Asn
1 5

<210> 134

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 134

Leu Val Lys Ser Gly Glu Val

1

5

<210> 135

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 135

Cys Ala Arg Phe Ser Asp Gly Gln Lys Leu Leu Phe

1

5

10

<210> 136

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 136

Met Asn His Asn Tyr

1

5

<210> 137

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

peptide<400> 137Ser Val Gly Ala Gly Ile1 5<210> 138<211> 15<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic
peptide<400> 138Cys Ala Ser Ser Asn Arg Gly Gly Val Pro Asp Thr Gln Tyr Phe1 5 10 15<210> 139<211> 9<212> PRT<213> Human gammaherpesvirus 4<400> 139Phe Leu Tyr Ala Leu Ala Leu Leu Leu1 5<210> 140<211> 10<212> PRT<213> Human gammaherpesvirus 4<400> 140Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys1 5 10<210> 141<211> 9<212> PRT<213> Human gammaherpesvirus 4<400> 141Ile Tyr Val Leu Val Met Leu Val Leu1 5

<210> 142

<211> 9

<212> PRT

<213> Human gammaherpesvirus 4

<400> 142

Thr Tyr Gly Pro Val Phe Met Cys Leu

1

5

<210> 143

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 143

Asp Ser Ala Ile Tyr Asn

1

5

<210> 144

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 144

Ile Gln Ser Ser Gln Arg Glu

1

5

<210> 145

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 145

Cys Ala Val Leu Met Asp Ser Asn Tyr Gln Leu Ile Trp

1

5

10

<210> 146

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 146

Trp Ser His Ser Tyr

1 5

<210> 147

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 147

Ser Ala Ala Ala Asp Ile

1 5

<210> 148

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 148

Cys Ala Ser Ser Glu Asp Gly Met Asn Thr Glu Ala Phe Phe

1 5 10

<210> 149

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 149

Asp Ser Val Asn Asn

1 5

<210> 150

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 150

Ile Pro Ser Gly Thr

1 5

<210> 151

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 151

Cys Ala Val Leu Asn Asn Asn Asp Met Arg Phe

1 5 10

<210> 152

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 152

Met Gly His Arg Ala

1 5

<210> 153

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 153

Tyr Ser Tyr Glu Lys Leu
1 5

<210> 154

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 154

Cys Ala Ser Ser Gln Gly Arg Trp Tyr Glu Gln Tyr Phe
1 5 10

<210> 155

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 155

Asn Ile Ala Thr Asn Asp Tyr
1 5

<210> 156

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 156

Gly Tyr Lys Thr Lys
1 5

<210> 157
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 157
Cys Leu Val Gly Asp Gln Gly Tyr Ser Thr Leu Thr Phe
1 5 10

<210> 158
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 158
Ser Gly His Ala Thr
1 5

<210> 159
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 159
Phe Gln Asn Asn Gly Val
1 5

<210> 160
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 160

Cys Ala Ser Ser Phe Lys Leu Val Glu Glu Thr Gln Tyr Phe

1 5 10

<210> 161

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 161

Asp Ser Ala Ile Tyr Asn

1

5

<210> 162

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 162

Ile Gln Ser Ser Gln Arg Glu

1 5

<210> 163

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 163

Cys Gly Gly Leu Gly Phe Gly Asn Val Leu His Cys

1 5 10

<210> 164

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 164

Gly Thr Ser Asn Pro Asn

1 5

<210> 165

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 165

Ser Val Gly Ile Gly

1 5

<210> 166

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 166

Cys Ala Trp Ser Ser Leu Ala Ser Ser Tyr Glu Gln Tyr Phe

1 5 10

<210> 167

<211> 9

<212> PRT

<213> Human gammaherpesvirus 4

<400> 167

Cys Leu Gly Gly Leu Leu Thr Met Val

1 5

<210> 168

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 168

Ser Leu Gly Gly Leu Leu Thr Met Val

15

<210> 169

<211> 497

<212> PRT

<213> Human gammaherpesvirus 4

<400> 169

Met Gly Ser Leu Glu Met Val Pro Met Gly Ala Gly Pro Pro Ser Pro

151015

Gly Gly Asp Pro Asp Gly Tyr Asp Gly Gly Asn Asn Ser Gln Tyr Pro

202530

Ser Ala Ser Gly Ser Ser Gly Asn Thr Pro Thr Pro Pro Asn Asp Glu

354045

Glu Arg Glu Ser Asn Glu Glu Pro Pro Pro Pro Tyr Glu Asp Pro Tyr

505560

Trp Gly Asn Gly Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr Gln

65707580

Asp Gln Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu

859095

Pro Pro Pro Pro Tyr Ser Pro Arg Asp Asp Ser Ser Gln His Ile Tyr

100105110

Glu Glu Ala Gly Arg Gly Ser Met Asn Pro Val Cys Leu Pro Val Ile

115120125

Val Ala Pro Tyr Leu Phe Trp Leu Ala Ala Ile Ala Ala Ser Cys Phe
130 135 140

Thr Ala Ser Val Ser Thr Val Val Thr Ala Thr Gly Leu Ala Leu Ser
145 150 155 160

Leu Leu Leu Leu Ala Ala Val Ala Ser Ser Tyr Ala Ala Ala Gln Arg
165 170 175

Lys Leu Leu Thr Pro Val Thr Val Leu Thr Ala Val Val Thr Phe Phe
180 185 190

Ala Ile Cys Leu Thr Trp Arg Ile Glu Asp Pro Pro Phe Asn Ser Leu
195 200 205

Leu Phe Ala Leu Leu Ala Ala Ala Gly Gly Leu Gln Gly Ile Tyr Val
210 215 220

Leu Val Met Leu Val Leu Leu Ile Leu Ala Tyr Arg Arg Arg Trp Arg
225 230 235 240

Arg Leu Thr Val Cys Gly Gly Ile Met Phe Leu Ala Cys Val Leu Val
245 250 255

Leu Ile Val Asp Ala Val Leu Gln Leu Ser Pro Leu Leu Gly Ala Val
260 265 270

Thr Val Val Ser Met Thr Leu Leu Leu Leu Ala Phe Val Leu Trp Leu
275 280 285

Ser Ser Pro Gly Gly Leu Gly Thr Leu Gly Ala Ala Leu Leu Thr Leu
290 295 300

Ala Ala Ala Leu Ala Leu Leu Ala Ser Leu Ile Leu Gly Thr Leu Asn
305 310 315 320

Leu Thr Thr Met Phe Leu Leu Met Leu Leu Trp Thr Leu Val Val Leu
325 330 335

Leu Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu
340 345 350

Ala Arg Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu Ala Ser Ala
355 360 365

Leu Ile Ala Gly Gly Ser Ile Leu Gln Thr Asn Phe Lys Ser Leu Ser
370 375 380

Ser Thr Glu Phe Ile Pro Asn Leu Phe Cys Met Leu Leu Leu Ile Val
385 390 395 400

Ala Gly Ile Leu Phe Ile Leu Ala Ile Leu Thr Glu Trp Gly Ser Gly
405 410 415

Asn Arg Thr Tyr Gly Pro Val Phe Met Cys Leu Gly Gly Leu Leu Thr
420 425 430

Met Val Ala Gly Ala Val Trp Leu Thr Val Met Ser Asn Thr Leu Leu
435 440 445

Ser Ala Trp Ile Leu Thr Ala Gly Phe Leu Ile Phe Leu Ile Gly Phe
450 455 460

Ala Leu Phe Gly Val Ile Arg Cys Cys Arg Tyr Cys Cys Tyr Tyr Cys
465 470 475 480

Leu Thr Leu Glu Ser Glu Glu Arg Pro Pro Thr Pro Tyr Arg Asn Thr
485 490 495

Val

<210> 170

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 170

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Thr
100 105 110

Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 171

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 171

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala

1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Thr Arg Gln Gly Gly Asn Glu Gln Phe Phe Gly Pro Gly Thr Arg Leu
115 120 125

Thr Val Leu
130

<210> 172

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 172

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Glu
100 105 110

Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 173

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 173

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Tyr Gln Gly Gly Asn Tyr Gly Tyr Thr Phe Gly Ser Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 174

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 174

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Glu
100 105 110

Gly Gly Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 175

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 175

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg

85

90

95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Asn Thr Gln Gly Gly His Tyr Gly Tyr Thr Phe Gly Ser Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 176

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 176

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Gln
100 105 110

Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 177

<211> 133

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 177

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Tyr Gln Gly Gly Thr Arg Asn Gly Tyr Thr Phe Gly Ser Gly Thr
115 120 125

Arg Leu Thr Val Val
130

<210> 178

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 178

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
 20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
 35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
 50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
 85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Val
 100 105 110

Gly Asn Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
 115 120 125

Leu Val Ser Pro
 130

<210> 179<211> 132<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic polypeptide<400> 179

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Gly Gln Gly Gly Ser Asp Gly Tyr Thr Phe Gly Ser Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 180<211> 132<212> PRT<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 180

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Asn
100 105 110

Gly Glu Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 181

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 181

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Thr Gln Gly Gly Gly Asp Gly Tyr Thr Phe Gly Ser Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 182

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 182

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser

202530

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Tyr Glu
100 105 110

Gly Asn Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 183

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 183

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Thr Gln Gly Gly Ala Asp Gly Tyr Thr Phe Gly Ser Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 184

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 184

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Glu
100 105 110

Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 185

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 185

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Arg Val Gln Gly Gly Ile Glu Gly Tyr Thr Phe Gly Ser Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 186

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 186

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Glu

100105110

Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 187

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 187

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Asn Gln Gln Gly Gly Gly Tyr Gly Tyr Thr Phe Gly Ser Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 188

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 188

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
 20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
 35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
 50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
 85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Glu
 100 105 110

Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
 115 120 125

Leu Val Ser Pro
130

<210> 189<211> 132<212> PRT<213> Artificial Sequence<220><223> Description of Artificial Sequence: Synthetic polypeptide<400> 189

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Arg Val Gln Gly Gly Ile Glu Gly Tyr Thr Phe Gly Ser Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 190<211> 132<212> PRT<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 190

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Glu
100 105 110

Gly Gly Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 191

<211> 133

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 191

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Phe Gln Gly Gly Gly Asn Tyr Gly Tyr Thr Phe Gly Ser Gly Thr
115 120 125

Arg Leu Thr Val Val
130

<210> 192

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 192

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Glu
100 105 110

Gly Gly Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 193

<211> 133

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 193

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His

71

35

40

45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Ser Gln Gly Gly Trp Asn Tyr Gly Tyr Thr Phe Gly Ser Gly Thr
115 120 125

Arg Leu Thr Val Val
130

<210> 194

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 194

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Pro Leu
100 105 110

Gly Glu Ala Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 195

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 195

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Arg Gln Gly Ser Tyr Asn Glu Gln Phe Phe Gly Pro Gly Thr Arg
115 120 125

Leu Thr Val Leu
130

<210> 196

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 196

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Val
100 105 110

Gly Asp Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
115 120 125

Leu Val Ser Pro
130

<210> 197

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 197

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Asn Pro Gln Gly Gly Ser Ile Gly Tyr Thr Phe Gly Ser Gly Thr Arg

115

120

125

Leu Thr Val Val
130

<210> 198

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 198

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

Ala Arg Val Asn Ser Gln Gln Gly Glu Glu Asp Pro Gln Ala Leu Ser
 20 25 30

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser
 35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val
 50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg
65 70 75 80

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile
 85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Glu
 100 105 110

Gly Gly Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu
 115 120 125

Leu Val Ser Pro
 130

<210> 199

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 199

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
1 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro
65 70 75 80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg
85 90 95

Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Thr Arg Gln Gly Gly Asn Glu Gln Phe Phe Gly Pro Gly Thr Arg Leu
115 120 125

Thr Val Leu
130

<210> 200

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 200

Met Glu Thr Leu Leu Gly Leu Leu Ile Leu Trp Leu Gln Leu Gln Trp
1 5 10 15

Val Ser Ser Lys Gln Glu Val Thr Gln Ile Pro Ala Ala Leu Ser Val
20 25 30

Pro Glu Gly Glu Asn Leu Val Leu Asn Cys Ser Phe Thr Asp Ser Ala
35 40 45

Ile Tyr Asn Leu Gln Trp Phe Arg Gln Asp Pro Gly Lys Gly Leu Thr
50 55 60

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

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

Ala Ala Ser Gln Pro Gly Asp Ser Ala Thr Tyr Leu Cys Ala Val Leu
100 105 110

Met Asp Ser Asn Tyr Gln Leu Ile Trp Gly Ala Gly Thr Lys Leu Ile
115 120 125

Ile Lys Pro
130

<210> 201

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 201

Met Gly Thr Arg Leu Phe Phe Tyr Val Ala Leu Cys Leu Leu Trp Ala
1 5 10 15

Gly His Arg Asp Ala Gly Ile Thr Gln Ser Pro Arg Tyr Lys Ile Thr
20 25 30

Glu Thr Gly Arg Gln Val Thr Leu Met Cys His Gln Thr Trp Ser His
35 40 45

Ser Tyr Met Phe Trp Tyr Arg Gln Asp Leu Gly His Gly Leu Arg Leu
50 55 60

Ile Tyr Tyr Ser Ala Ala Ala Asp Ile Thr Asp Lys Gly Glu Val Pro
65 70 75 80

Asp Gly Tyr Val Val Ser Arg Ser Lys Thr Glu Asn Phe Pro Leu Thr
85 90 95

Leu Glu Ser Ala Thr Arg Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Glu Asp Gly Met Asn Thr Glu Ala Phe Phe Gly Gln Gly Thr Arg
115 120 125

Leu Thr Val Val
130

<210> 202

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 202

Met Leu Leu Ile Thr Ser Met Leu Val Leu Trp Met Gln Leu Ser Gln
1 5 10 15

Val Asn Gly Gln Gln Val Met Gln Ile Pro Gln Tyr Gln His Val Gln
20 25 30

Glu Gly Glu Asp Phe Thr Thr Tyr Cys Asn Ser Ser Thr Thr Leu Ser
35 40 45

Asn Ile Gln Trp Tyr Lys Gln Arg Pro Gly Gly His Pro Val Phe Leu
50 55 60

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

Phe Gln Phe Gly Glu Ala Lys Lys Asn Ser Ser Leu His Ile Thr Ala
85 90 95

Thr Gln Thr Thr Asp Val Gly Thr Tyr Phe Cys Ala Asp Pro Asp Gly
100 105 110

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

<210> 203

<211> 134

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 203

Met Asp Ser Trp Thr Phe Cys Cys Val Ser Leu Cys Ile Leu Val Ala
1 5 10 15

Lys His Thr Asp Ala Gly Val Ile Gln Ser Pro Arg His Glu Val Thr
20 25 30

Glu Met Gly Gln Glu Val Thr Leu Arg Cys Lys Pro Ile Ser Gly His
35 40 45

Asn Ser Leu Phe Trp Tyr Arg Gln Thr Met Met Arg Gly Leu Glu Leu
50 55 60

Leu Ile Tyr Phe Asn Asn Asn Val Pro Ile Asp Asp Ser Gly Met Pro
65 70 75 80

Glu Asp Arg Phe Ser Ala Lys Met Pro Asn Ala Ser Phe Ser Thr Leu
85 90 95

Lys Ile Gln Pro Ser Glu Pro Arg Asp Ser Ala Val Tyr Phe Cys Ala
100 105 110

Ser Ser Leu Gly Ala Gly Ala Gly Tyr Gly Tyr Thr Phe Gly Ser Gly
115 120 125

Thr Arg Leu Thr Val Val
130

<210> 204

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 204

Met Lys Arg Ile Leu Gly Ala Leu Leu Gly Leu Leu Ser Ala Gln Val
1 5 10 15

Cys Cys Val Arg Gly Ile Gln Val Glu Gln Ser Pro Pro Asp Leu Ile
20 25 30

Leu Gln Glu Gly Ala Asn Ser Thr Leu Arg Cys Asn Phe Ser Asp Ser
35 40 45

Val Asn Asn Leu Gln Trp Phe His Gln Asn Pro Trp Gly Gln Leu Ile
50 55 60

Asn Leu Phe Tyr Ile Pro Ser Gly Thr Lys Gln Asn Gly Arg Leu Ser

81

65

70

75

80

Ala Thr Thr Val Ala Thr Glu Arg Tyr Ser Leu Leu Tyr Ile Ser Ser
85 90 95

Ser Gln Thr Thr Asp Ser Gly Val Tyr Phe Cys Ala Val Asp Gly Gly
100 105 110

Asn Lys Leu Val Phe Gly Ala Gly Thr Ile Leu Arg Val Lys Ser
115 120 125

<210> 205

<211> 134

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 205

Met Asp Ser Trp Thr Phe Cys Cys Val Ser Leu Cys Ile Leu Val Ala
1 5 10 15

Lys His Thr Asp Ala Gly Val Ile Gln Ser Pro Arg His Glu Val Thr
20 25 30

Glu Met Gly Gln Glu Val Thr Leu Arg Cys Lys Pro Ile Ser Gly His
35 40 45

Asn Ser Leu Phe Trp Tyr Arg Gln Thr Met Met Arg Gly Leu Glu Leu
50 55 60

Leu Ile Tyr Phe Asn Asn Asn Val Pro Ile Asp Asp Ser Gly Met Pro
65 70 75 80

Glu Asp Arg Phe Ser Ala Lys Met Pro Asn Ala Ser Phe Ser Thr Leu
85 90 95

Lys Ile Gln Pro Ser Glu Pro Arg Asp Ser Ala Val Tyr Phe Cys Ala
100 105 110

Ser Ser Leu Gly Ala Gly Ser Gly Trp Glu Gln Tyr Phe Gly Pro Gly
115 120 125

Thr Arg Leu Thr Val Thr
130

<210> 206

<211> 147

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 206

Met Ala Phe Trp Leu Arg Arg Leu Gly Leu His Phe Arg Pro His Leu
1 5 10 15

Gly Arg Arg Met Glu Ser Phe Leu Gly Gly Val Leu Leu Ile Leu Trp
20 25 30

Leu Gln Val Asp Trp Val Lys Ser Gln Lys Ile Glu Gln Asn Ser Glu
35 40 45

Ala Leu Asn Ile Gln Glu Gly Lys Thr Ala Thr Leu Thr Cys Asn Tyr
50 55 60

Thr Asn Tyr Ser Pro Ala Tyr Leu Gln Trp Tyr Arg Gln Asp Pro Gly
65 70 75 80

Arg Gly Pro Val Phe Leu Leu Leu Ile Arg Glu Asn Glu Lys Glu Lys
85 90 95

Arg Lys Glu Arg Leu Lys Val Thr Phe Asp Thr Thr Leu Lys Gln Ser
100 105 110

Leu Phe His Ile Thr Ala Ser Gln Pro Ala Asp Ser Ala Thr Tyr Leu
115 120 125

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

Val Ile Ala
145

<210> 207

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 207

Met Gly Thr Arg Leu Leu Cys Trp Ala Ala Leu Cys Leu Leu Gly Ala
1 5 10 15

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

Glu Lys Arg Gln Ser Val Ala Phe Trp Cys Asn Pro Ile Ser Gly His
35 40 45

Ala Thr Leu Tyr Trp Tyr Gln Gln Ile Leu Gly Gln Gly Pro Lys Leu
50 55 60

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

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

Lys Ile Gln Pro Ala Lys Leu Glu Asp Ser Ala Val Tyr Leu Cys Ala
100 105 110

Ser Ser Leu Val Pro Glu Glu Thr Gln Tyr Phe Gly Pro Gly Thr Arg
115 120 125

Leu Leu Val Leu
130

<210> 208

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 208

Met Lys Arg Ile Leu Gly Ala Leu Leu Gly Leu Leu Ser Ala Gln Val
1 5 10 15

Cys Cys Val Arg Gly Ile Gln Val Glu Gln Ser Pro Pro Asp Leu Ile
 20 25 30

Leu Gln Glu Gly Ala Asn Ser Thr Leu Arg Cys Asn Phe Ser Asp Ser
 35 40 45

Val Asn Asn Leu Gln Trp Phe His Gln Asn Pro Trp Gly Gln Leu Ile
 50 55 60

Asn Leu Phe Tyr Ile Pro Ser Gly Thr Lys Gln Asn Gly Arg Leu Ser
65 70 75 80

Ala Thr Thr Val Ala Thr Glu Arg Tyr Ser Leu Leu Tyr Ile Ser Ser
 85 90 95

Ser Gln Thr Thr Asp Ser Gly Val Tyr Phe Cys Ala Val Leu Asn Asn
 100 105 110

Asn Asp Met Arg Phe Gly Ala Gly Thr Arg Leu Thr Val Lys Pro
 115 120 125

<210> 209

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 209

Met Gly Cys Arg Leu Leu Cys Cys Ala Val Leu Cys Leu Leu Gly Ala
1 5 10 15

Val Pro Ile Asp Thr Glu Val Thr Gln Thr Pro Lys His Leu Val Met
20 25 30

Gly Met Thr Asn Lys Lys Ser Leu Lys Cys Glu Gln His Met Gly His
35 40 45

Arg Ala Met Tyr Trp Tyr Lys Gln Lys Ala Lys Lys Pro Pro Glu Leu
50 55 60

Met Phe Val Tyr Ser Tyr Glu Lys Leu Ser Ile Asn Glu Ser Val Pro
65 70 75 80

Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser Leu Leu Asn Leu His
85 90 95

Leu His Ala Leu Gln Pro Glu Asp Ser Ala Leu Tyr Leu Cys Ala Ser
100 105 110

Ser Gln Gly Arg Trp Tyr Glu Gln Tyr Phe Gly Pro Gly Thr Arg Leu
115 120 125

Thr Val Thr
130

<210> 210

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 210

Met Arg Gln Val Ala Arg Val Ile Val Phe Leu Thr Leu Ser Thr Leu
1 5 10 15

Ser Leu Ala Lys Thr Thr Gln Pro Ile Ser Met Asp Ser Tyr Glu Gly
20 25 30

Gln Glu Val Asn Ile Thr Cys Ser His Asn Asn Ile Ala Thr Asn Asp
35 40 45

Tyr Ile Thr Trp Tyr Gln Gln Phe Pro Ser Gln Gly Pro Arg Phe Ile
50 55 60

Ile Gln Gly Tyr Lys Thr Lys Val Thr Asn Glu Val Ala Ser Leu Phe
65 70 75 80

Ile Pro Ala Asp Arg Lys Ser Ser Thr Leu Ser Leu Pro Arg Val Ser
85 90 95

Leu Ser Asp Thr Ala Val Tyr Tyr Cys Leu Val Gly Asp Gln Gly Tyr
100 105 110

Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu Leu Val Ser Pro
115 120 125

<210> 211

<211> 133

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 211

Met Gly Thr Arg Leu Leu Cys Trp Ala Ala Leu Cys Leu Leu Gly Ala
1 5 10 15

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

Glu Lys Arg Gln Ser Val Ala Phe Trp Cys Asn Pro Ile Ser Gly His

87

35

40

45

Ala Thr Leu Tyr Trp Tyr Gln Gln Ile Leu Gly Gln Gly Pro Lys Leu
50 55 60

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

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

Lys Ile Gln Pro Ala Lys Leu Glu Asp Ser Ala Val Tyr Leu Cys Ala
100 105 110

Ser Ser Phe Lys Leu Val Glu Glu Thr Gln Tyr Phe Gly Pro Gly Thr
115 120 125

Arg Leu Leu Val Leu
130

<210> 212

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 212

Met Ile Ser Leu Arg Val Leu Leu Val Ile Leu Trp Leu Gln Leu Ser
1 5 10 15

Trp Val Trp Ser Gln Arg Lys Glu Val Glu Gln Asp Pro Gly Pro Phe
20 25 30

Asn Val Pro Glu Gly Ala Thr Val Ala Phe Asn Cys Thr Tyr Ser Asn
35 40 45

Ser Ala Ser Gln Ser Phe Phe Trp Tyr Arg Gln Asp Cys Arg Lys Glu
50 55 60

Pro Lys Leu Leu Met Ser Val Tyr Ser Ser Gly Asn Glu Asp Gly Arg
65 70 75 80

Phe Thr Ala Gln Leu Asn Arg Ala Ser Gln Tyr Ile Ser Leu Leu Ile
85 90 95

Arg Asp Ser Lys Leu Ser Asp Ser Ala Thr Tyr Leu Cys Val Val Arg
100 105 110

Gly Tyr Asn Phe Asn Lys Phe Tyr Phe Gly Ser Gly Thr Lys Leu Asn
115 120 125

Val Lys Pro
130

<210> 213

<211> 134

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 213

Met Leu Leu Leu Leu Leu Leu Leu Gly Pro Gly Ser Gly Leu Gly Ala
1 5 10 15

Val Val Ser Gln His Pro Ser Arg Val Ile Cys Lys Ser Gly Thr Ser
20 25 30

Val Lys Ile Glu Cys Arg Ser Leu Asp Phe Gln Ala Thr Thr Met Phe
35 40 45

Trp Tyr Arg Gln Phe Pro Lys Gln Ser Leu Met Leu Met Ala Thr Ser
50 55 60

Asn Glu Gly Ser Lys Ala Thr Tyr Glu Gln Gly Val Glu Lys Asp Lys
65 70 75 80

Phe Leu Ile Asn His Ala Ser Leu Thr Leu Ser Thr Leu Thr Val Thr
85 90 95

Ser Ala His Pro Glu Asp Ser Ser Phe Tyr Ile Cys Ser Ala Arg Gly
100 105 110

Pro Gly Glu Arg Glu Ala Asn Thr Asp Thr Gln Tyr Phe Gly Pro Gly
115 120 125

Thr Arg Leu Thr Val Leu
130

<210> 214

<211> 136

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 214

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Ala Ser Ala Arg Lys Glu Val Glu Gln
20 25 30

Asp Pro Gly Pro Phe Asn Val Pro Glu Gly Ala Thr Val Ala Phe Asn
35 40 45

Cys Thr Tyr Ser Asn Ser Ala Ser Gln Ser Phe Phe Trp Tyr Arg Gln
50 55 60

Asp Cys Arg Lys Glu Pro Lys Leu Leu Met Ser Val Tyr Ser Ser Gly
65 70 75 80

Asn Glu Asp Gly Arg Phe Thr Ala Gln Leu Asn Arg Ala Ser Gln Tyr
85 90 95

Ile Ser Leu Leu Ile Arg Asp Ser Lys Leu Ser Asp Ser Ala Thr Tyr
100 105 110

Leu Cys Val Val Arg Gly Tyr Asn Phe Asn Lys Phe Tyr Phe Gly Ser
115 120 125

Gly Thr Lys Leu Asn Val Lys Pro
130 135

<210> 215

<211> 146

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 215

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Cys Leu Gln Glu Gly Ser Ala Gly Ala Val Val Ser Gln
20 25 30

His Pro Ser Trp Val Ile Cys Lys Ser Gly Thr Ser Val Lys Ile Glu
35 40 45

Cys Arg Ser Leu Asp Phe Gln Ala Thr Thr Met Phe Trp Tyr Arg Gln
50 55 60

Phe Pro Lys Gln Ser Leu Met Leu Met Ala Thr Ser Asn Glu Gly Ser
65 70 75 80

Lys Ala Thr Tyr Glu Gln Gly Val Glu Lys Asp Lys Phe Leu Ile Asn
85 90 95

His Ala Ser Leu Thr Leu Ser Thr Leu Thr Val Thr Ser Ala His Pro
100 105 110

Glu Asp Ser Ser Phe Tyr Ile Cys Ser Ala Arg Gly Pro Arg Ile Thr

115120125

Asp Ser Ser Thr Asp Thr Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr
130 135 140

Val Leu
145

<210> 216

<211> 136

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 216

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Ala Ser Ala Gly Gln Gln Val Met Gln
20 25 30

Ile Pro Gln Tyr Gln His Val Gln Glu Gly Glu Asp Phe Thr Thr Tyr
35 40 45

Cys Asn Ser Ser Thr Thr Leu Ser Asn Ile Gln Trp Tyr Lys Gln Arg
50 55 60

Pro Gly Gly His Pro Val Phe Leu Ile Gln Leu Val Lys Ser Gly Glu
65 70 75 80

Val Lys Lys Gln Lys Arg Leu Thr Phe Gln Phe Gly Glu Ala Lys Lys
85 90 95

Asn Ser Ser Leu His Ile Thr Ala Thr Gln Thr Thr Asp Val Gly Thr
100 105 110

Tyr Phe Cys Ala Arg Phe Ser Asp Gly Gln Lys Leu Leu Phe Ala Arg
115 120 125

Gly Thr Met Leu Lys Val Asp Leu
130 135

<210> 217

<211> 141

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 217

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Cys Leu Gln Glu Gly Ser Ala Asn Ala Gly Val Thr Gln
20 25 30

Thr Pro Lys Phe Arg Ile Leu Lys Ile Gly Gln Ser Met Thr Leu Gln
35 40 45

Cys Thr Gln Asp Met Asn His Asn Tyr Met Tyr Trp Tyr Arg Gln Asp
50 55 60

Pro Gly Met Gly Leu Lys Leu Ile Tyr Tyr Ser Val Gly Ala Gly Ile
65 70 75 80

Thr Asp Lys Gly Glu Val Pro Asn Gly Tyr Asn Val Ser Arg Ser Thr
85 90 95

Thr Glu Asp Phe Pro Leu Arg Leu Glu Leu Ala Ala Pro Ser Gln Thr
100 105 110

Ser Val Tyr Phe Cys Ala Ser Ser Cys Arg Gly Arg Gly Asp Cys Thr
115 120 125

Glu Ala Phe Phe Gly Gln Gly Thr Arg Leu Thr Val Val
130 135 140

<210> 218

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 218

Met Met Lys Ser Leu Arg Val Leu Leu Val Ile Leu Trp Leu Gln Leu
1 5 10 15

Ser Trp Val Trp Ser Gln Gln Lys Glu Val Glu Gln Asp Pro Gly Pro
20 25 30

Leu Ser Val Pro Glu Gly Ala Ile Val Ser Leu Asn Cys Thr Tyr Ser
35 40 45

Asn Ser Ala Phe Gln Tyr Phe Met Trp Tyr Arg Gln Tyr Ser Arg Lys
50 55 60

Gly Pro Glu Leu Leu Met Tyr Thr Tyr Ser Ser Gly Asn Lys Glu Asp
65 70 75 80

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

Phe Ile Arg Asp Ser Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala
100 105 110

Met Ser Ala Trp Ala Ser Lys Ile Ile Phe Gly Ser Gly Thr Arg Leu
115 120 125

Ser Ile Arg Pro
130

<210> 219

<211> 134

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 219

Met Ala Ser Leu Leu Phe Phe Cys Gly Ala Phe Tyr Leu Leu Gly Thr
1 5 10 15

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

Lys Thr Gly Lys Arg Ile Met Leu Glu Cys Ser Gln Thr Lys Gly His
35 40 45

Asp Arg Met Tyr Trp Tyr Arg Gln Asp Pro Gly Leu Gly Leu Arg Leu
50 55 60

Ile Tyr Tyr Ser Phe Asp Val Lys Asp Ile Asn Lys Gly Glu Ile Ser
65 70 75 80

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

Leu Glu Ser Ala Ile Pro Asn Gln Thr Ala Leu Tyr Phe Cys Ala Thr
100 105 110

Ser Glu Lys Gly Thr Gly Arg Gln Glu Thr Gln Tyr Phe Gly Pro Gly
115 120 125

Thr Arg Leu Leu Val Leu
130

<210> 220

<211> 136

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 220

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Ala Ser Ala Gly Gln Gln Val Met Gln
20 25 30

Ile Pro Gln Tyr Gln His Val Gln Glu Gly Glu Asp Phe Thr Thr Tyr
35 40 45

Cys Asn Ser Ser Thr Thr Leu Ser Asn Ile Gln Trp Tyr Lys Gln Arg
50 55 60

Pro Gly Gly His Pro Val Phe Leu Ile Gln Leu Val Lys Ser Gly Glu
65 70 75 80

Val Lys Lys Gln Lys Arg Leu Thr Phe Gln Phe Gly Glu Ala Lys Lys
85 90 95

Asn Ser Ser Leu His Ile Thr Ala Thr Gln Thr Thr Asp Val Gly Thr
100 105 110

Tyr Phe Cys Ala Arg Phe Ser Asp Gly Gln Lys Leu Leu Phe Ala Arg
115 120 125

Gly Thr Met Leu Lys Val Asp Leu
130 135

<210> 221

<211> 140

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 221

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Cys Leu Gln Glu Gly Ser Ala Asn Ala Gly Val Thr Gln
20 25 30

Thr Pro Lys Phe Arg Ile Leu Lys Ile Gly Gln Ser Met Thr Leu Gln
35 40 45

Cys Thr Gln Asp Met Asn His Asn Tyr Met Tyr Trp Tyr Arg Gln Asp
50 55 60

Pro Gly Met Gly Leu Lys Leu Ile Tyr Tyr Ser Val Gly Ala Gly Ile
65 70 75 80

Thr Asp Lys Gly Glu Val Pro Asn Gly Tyr Asn Val Ser Arg Ser Thr
85 90 95

Thr Glu Asp Phe Pro Leu Arg Leu Glu Leu Ala Ala Pro Ser Gln Thr
100 105 110

Ser Val Tyr Phe Cys Ala Ser Ser Asn Arg Gly Gly Val Pro Asp Thr
115 120 125

Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val Leu
130 135 140

<210> 222

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 222

Met Glu Thr Leu Leu Gly Leu Leu Ile Leu Trp Leu Gln Leu Gln Trp
1 5 10 15

Val Ser Ser Lys Gln Glu Val Thr Gln Ile Pro Ala Ala Leu Ser Val
20 25 30

Pro Glu Gly Glu Asn Leu Val Leu Asn Cys Ser Phe Thr Asp Ser Ala

35

40

45

Ile Tyr Asn Leu Gln Trp Phe Arg Gln Asp Pro Gly Lys Gly Leu Thr
50 55 60

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

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

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

Gly Phe Gly Asn Val Leu His Cys Gly Ser Gly Thr Gln Val Ile Val
115 120 125

Leu Pro
130

<210> 223

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 223

Met Leu Cys Ser Leu Leu Ala Leu Leu Leu Gly Thr Phe Phe Gly Val
1 5 10 15

Arg Ser Gln Thr Ile His Gln Trp Pro Ala Thr Leu Val Gln Pro Val
20 25 30

Gly Ser Pro Leu Ser Leu Glu Cys Thr Val Glu Gly Thr Ser Asn Pro
35 40 45

Asn Leu Tyr Trp Tyr Arg Gln Ala Ala Gly Arg Gly Leu Gln Leu Leu
50 55 60

Phe Tyr Ser Val Gly Ile Gly Gln Ile Ser Ser Glu Val Pro Gln Asn
65 70 75 80

Leu Ser Ala Ser Arg Pro Gln Asp Arg Gln Phe Ile Leu Ser Ser Lys
85 90 95

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

Leu Ala Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr
115 120 125

Val Thr
130

<210> 224

<211> 141

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 224

Asp Ile Gln Asn Pro Glu Pro Ala Val Tyr Gln Leu Lys Asp Pro Arg
1 5 10 15

Ser Gln Asp Ser Thr Leu Cys Leu Phe Thr Asp Phe Asp Ser Gln Ile
20 25 30

Asn Val Pro Lys Thr Met Glu Ser Gly Thr Phe Ile Thr Asp Lys Thr
35 40 45

Val Leu Asp Met Lys Ala Met Asp Ser Lys Ser Asn Gly Ala Ile Ala
50 55 60

Trp Ser Asn Gln Thr Ser Phe Thr Cys Gln Asp Ile Phe Lys Glu Thr
65 70 75 80

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

Glu Lys Ser Phe Glu Thr Asp Met Asn Leu Asn Phe Gln Asn Leu Ser
100 105 110

Val Met Gly Leu Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu
115 120 125

Leu Met Thr Leu Arg Leu Trp Ser Ser Arg Ala Lys Arg
130 135 140

<210> 225

<211> 173

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 225

Glu Asp Leu Arg Asn Val Thr Pro Pro Lys Val Ser Leu Phe Glu Pro
1 5 10 15

Ser Lys Ala Glu Ile Ala Asn Lys Gln Lys Ala Thr Leu Val Cys Leu
20 25 30

Ala Arg Gly Phe Phe Pro Asp His Val Glu Leu Ser Trp Trp Val Asn
35 40 45

Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Ala Tyr Lys
50 55 60

Glu Ser Asn Tyr Ser Tyr Cys Leu Ser Ser Arg Leu Arg Val Cys Ala
65 70 75 80

Thr Phe Trp His Asn Pro Arg Asn His Phe Arg Cys Gln Val Gln Phe
85 90 95

His Gly Leu Ser Glu Glu Asp Lys Trp Pro Glu Gly Ser Pro Lys Pro
100 105 110

Val Thr Gln Asn Ile Ser Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly
115 120 125

Ile Thr Ser Ala Ser Tyr Gln Gln Gly Val Leu Ser Ala Thr Ile Leu
130 135 140

Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val Leu Val Ser
145 150 155 160

Thr Leu Val Val Met Ala Met Val Lys Arg Lys Asn Ser
165 170