

% Frequency of Replikins in Various Protein Groups

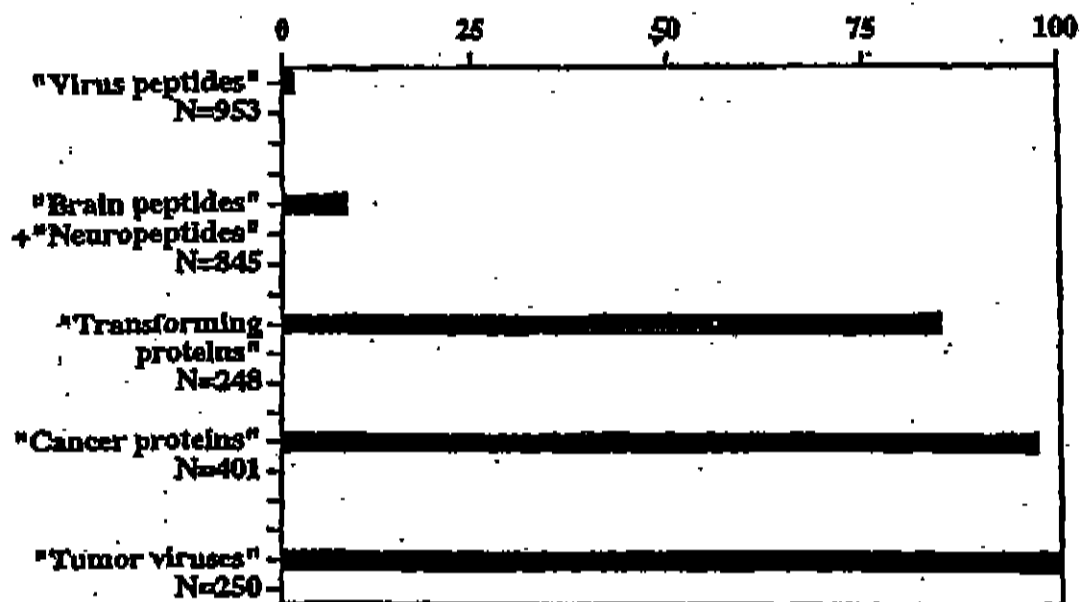


FIG.1

**Enrichment of Malignin During Anaerobic
Replication of Glioblastoma (Glioma) Cells**

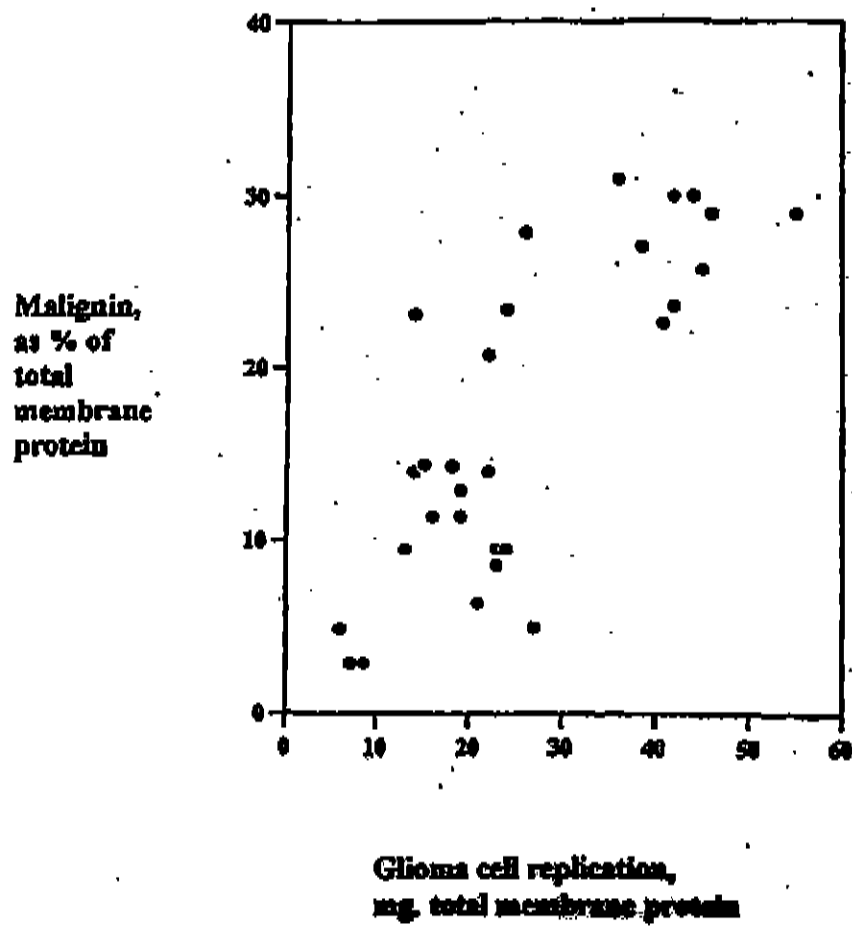


FIG.2

**Production of Antimaligini Antibody in Response
To Synthetic Malignin Peptide ykagvafltkkndide**

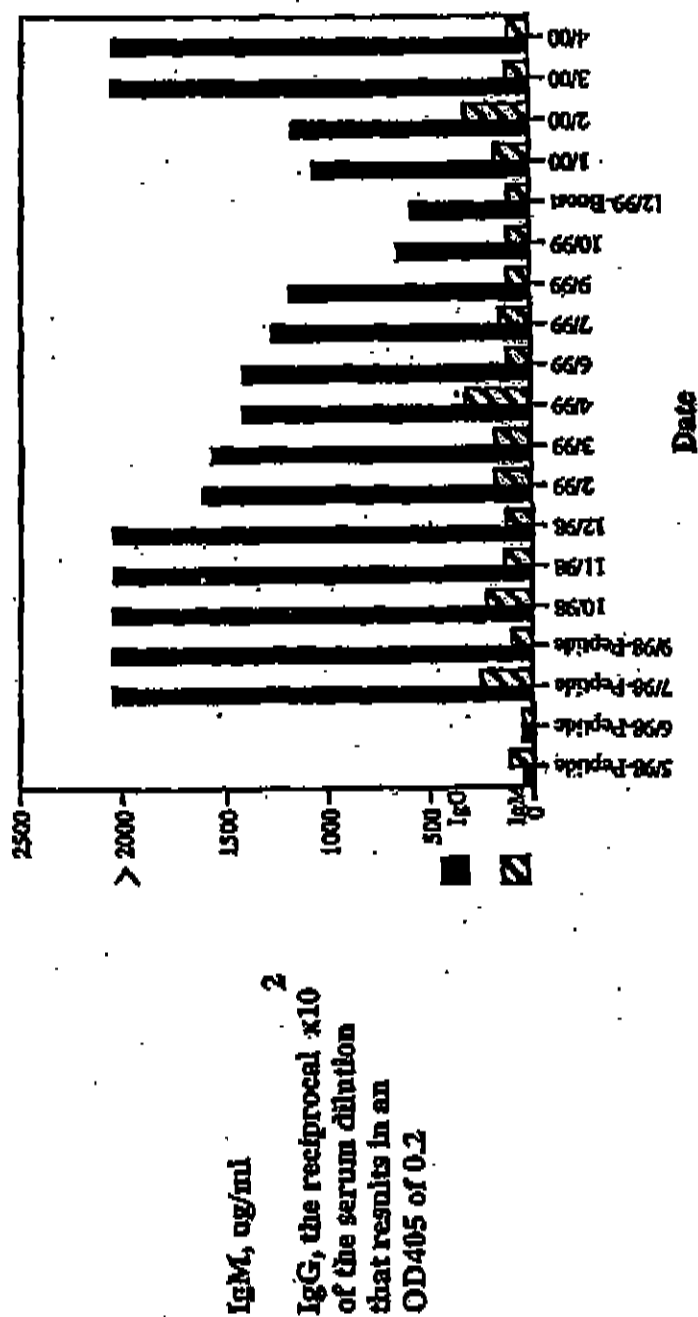


FIG.3

Specificity of Binding and Cytotoxicity of Antimalarial Agents to Leukemic, Brain Glioma, and Small Cell Lung Carcinoma Cells

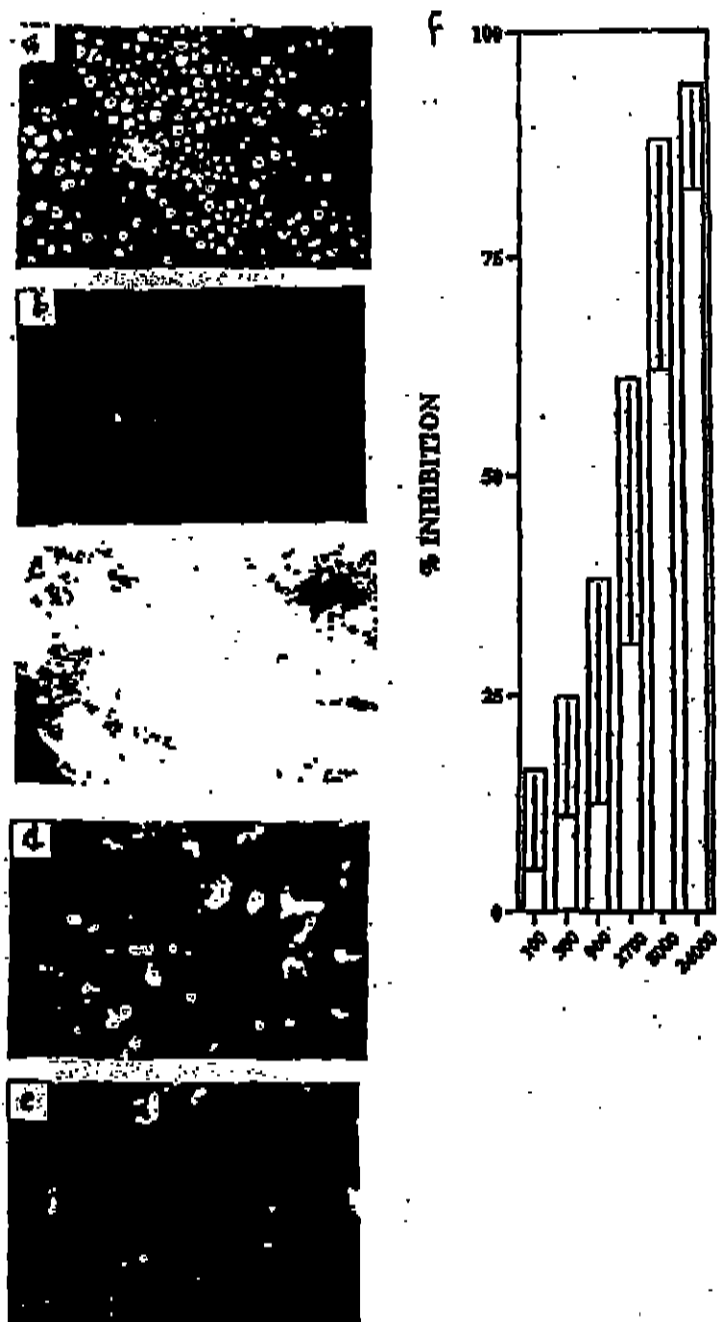


FIG.4

Antimalignin Antibody in Benign and Malignant Breast Disease and Post Surgery

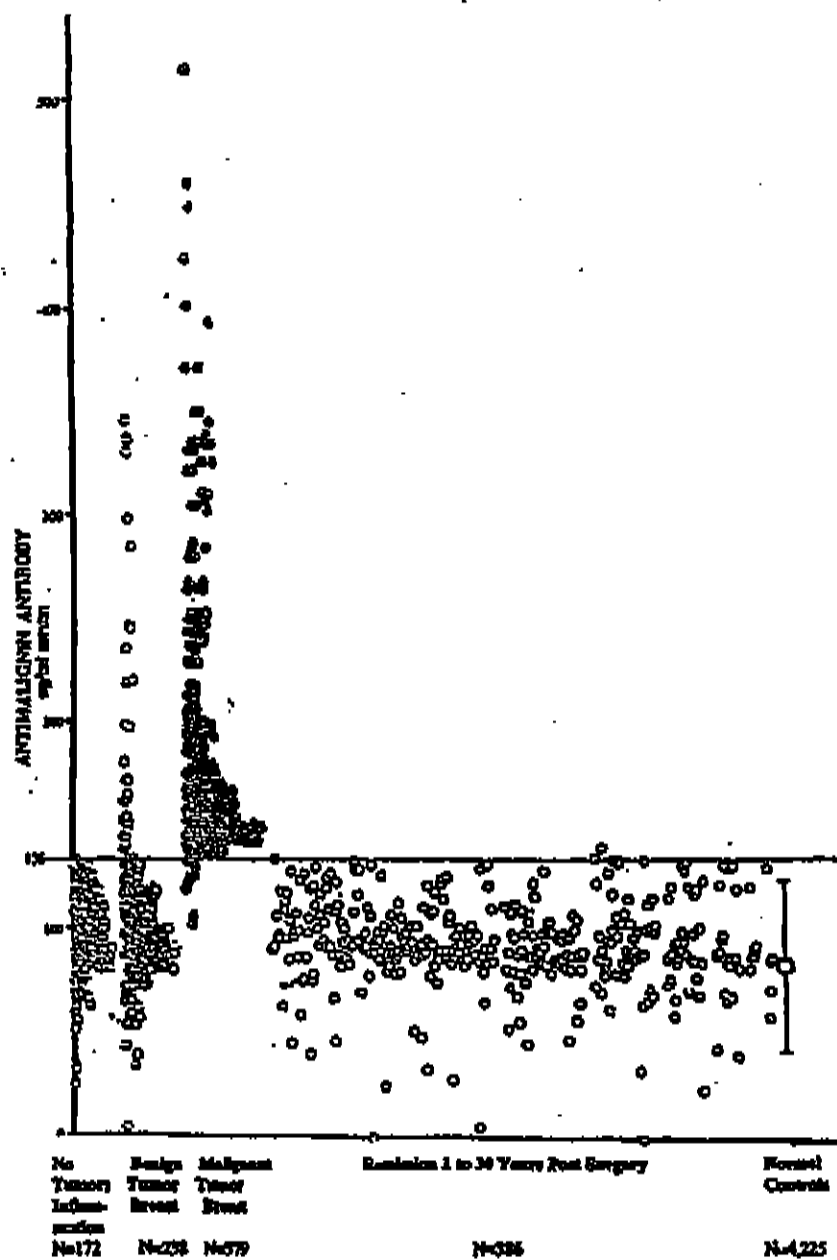


FIG.5

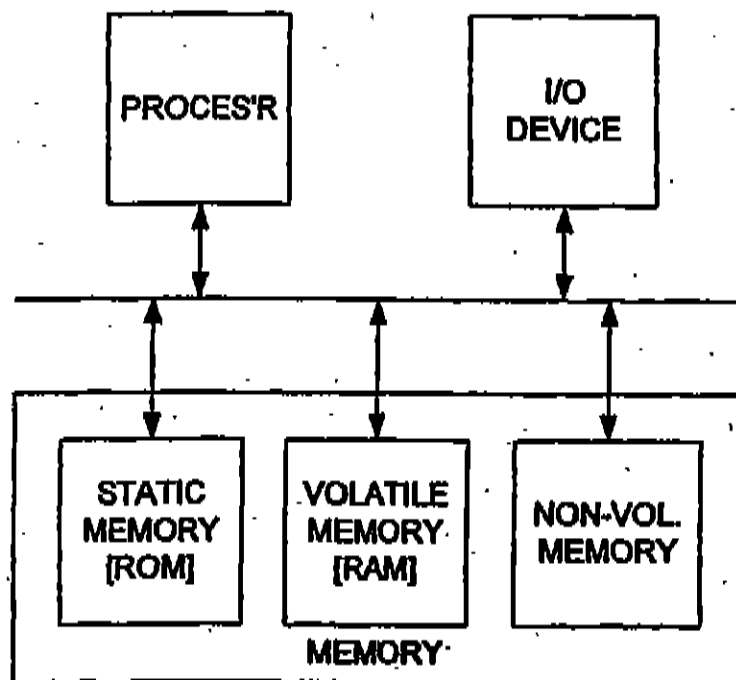


FIG.6

**Relation of Replikin Concentration to Pandemics (P) and Epidemics (E)
In Four Major Strains of Influenza Virus, 1902-2001**

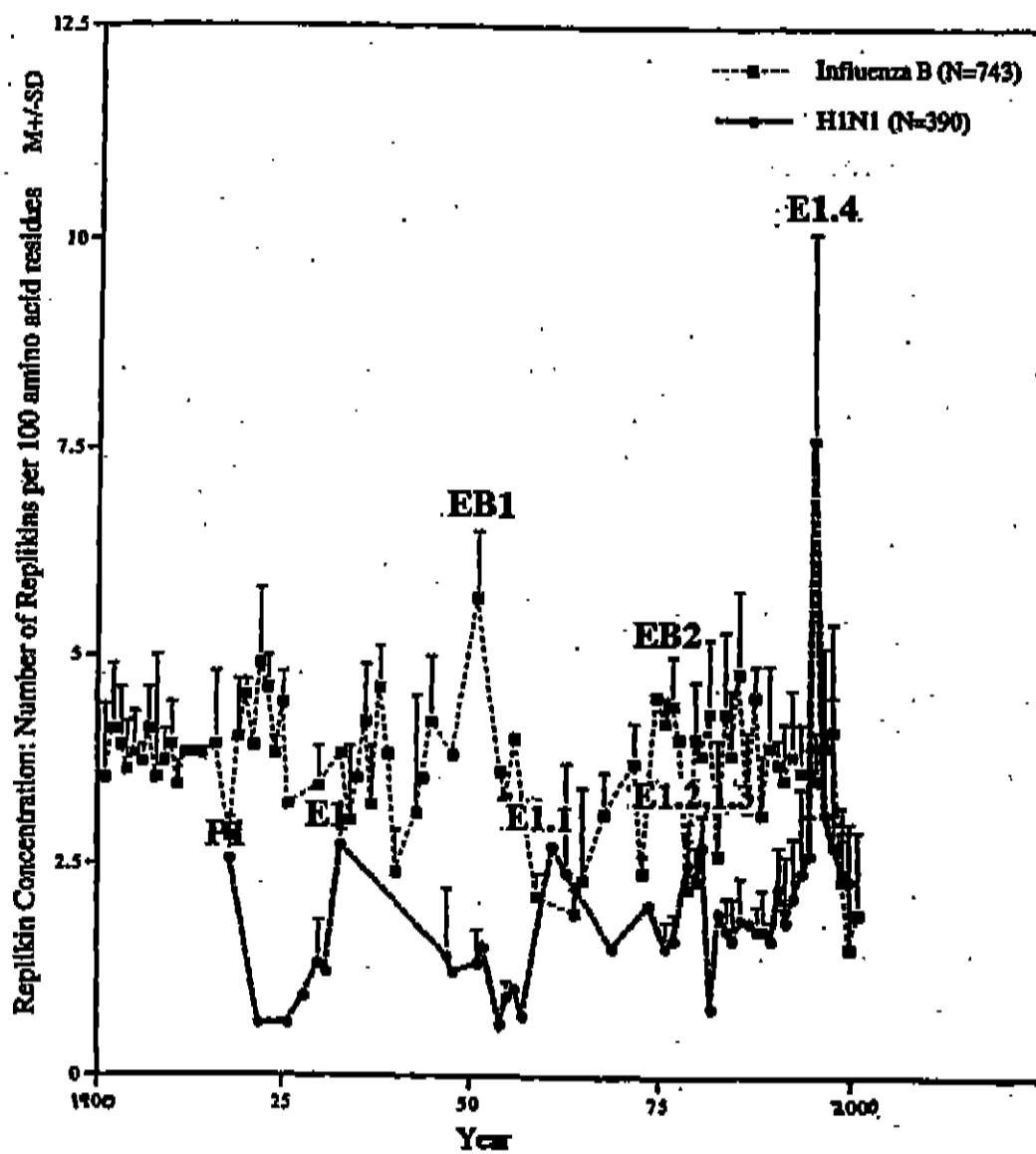


FIG.7

**Relation of Replikin Concentration to Pandemics (P) and Epidemics (E)
In Four Major Strains of Influenza Virus, 1902-2001**

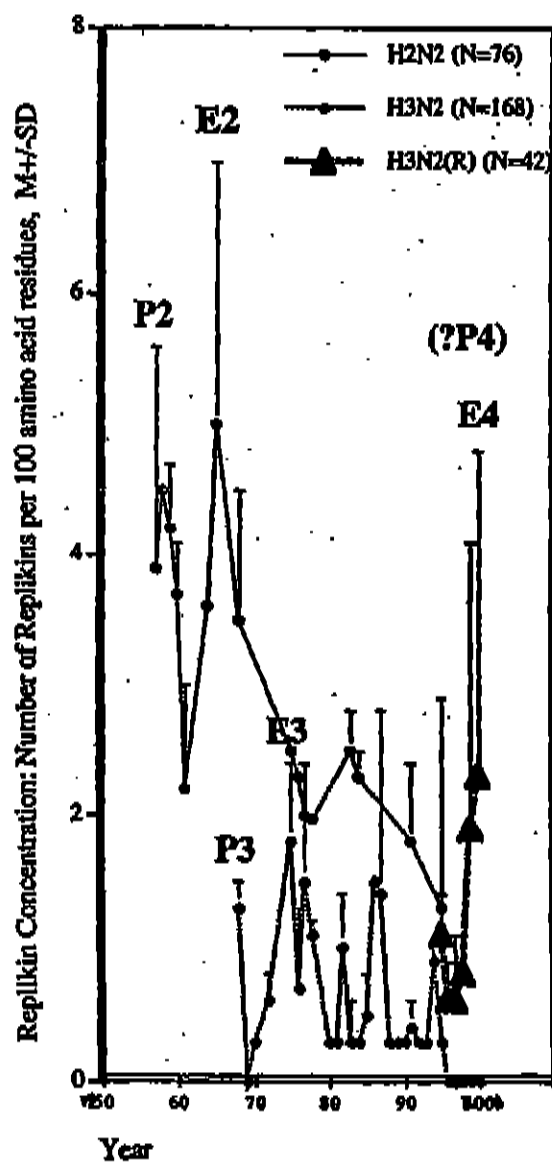


FIG.8

SEQ.List.txt

SEQUENCE LISTING

<110> BOGOCH, SAMUEL
BOGOCH, ELENORE S.

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<140> unassigned

<141> 2002-07-09

<150> PCT/US02/09240

<151> 2002-03-26

<150> 60/278,761

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<151> 2001-07-09

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SEQ.List.txt

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SEQ.List.txt

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SEQ.List.txt

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1 5

<210> 27
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1 5

<210> 28
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SEQ.List.txt

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1 5

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<210> 32

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<213> Homo sapiens

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<210> 33

SEQ.List.txt

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<210> 37
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SEQ.List.txt

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<210> 52

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SEQ.List.txt

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SEQ.List.txt

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<210> 82
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<210> 85
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SEQ.List.txt

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Ser Lys

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5

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5

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Lys

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Cys Pro Lys

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Glu His Ala Lys
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<211> 29

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SEQ.List.txt

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20 25

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20 25 30

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<211> 13

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<213> Influenza B virus

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1 5 10

<210> 115

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Lys

<210> 116

<211> 16

<212> PRT

<213> Influenza B virus

SEQ.List.txt

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<211> 21

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<213> Influenza B virus

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Ser Lys Pro Gln Lys
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<212> PRT

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Pro Gln Lys

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<211> 9

<212> PRT

<213> Influenza B virus

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<223> ala or val

<400> 119

Lys Xaa Ser Ile Leu His Glu Val Lys
1 5

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<211> 15

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SEQ.List.txt

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<400> 120

Lys Cys Thr Gly Thr Ile Pro Ser Ala Lys Ala Ser Ile Leu His
1 5 10 15

<210> 121

<211> 18

<212> PRT

<213> Influenza B virus

<400> 121

Lys Cys Thr Gly Thr Ile Pro Ser Ala Lys Ala Ser Ile Leu His Glu
1 5 10 15

Val Lys

<210> 122

<211> 16

<212> PRT

<213> Influenza B virus

<400> 122

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

<210> 123

<211> 26

<212> PRT

<213> Influenza B virus

<400> 123

Lys Val Trp Cys Ala Ser Gly Arg Ser Lys Val Ile Lys Gly Ser Leu
1 5 10 15

Pro Leu Ile Gly Glu Ala Asp Cys Leu His
20 25

<210> 124

<211> 10

<212> PRT

<213> Influenza B virus

<400> 124

SEQ.List.txt

Lys Pro Tyr Tyr Thr Gly Glu His Ala Lys
1 5 10

<210> 125
<211> 18
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<400> 125
Lys Cys Met Gly Thr Ile Pro Ser Ala Lys Ala Ser Ile Leu His Glu
1 5 10 15

Val Lys

<210> 126
<211> 15
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<400> 126
His Asn Val Ile Asn Ala Glu Lys Ala Pro Gly Gly Pro Tyr Lys
1 5 10 15

<210> 127
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His Ser Asp Asn Glu Thr Gln Met Ala Lys Leu Tyr Gly Asp Ser Lys
1 5 10 15

<210> 128
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His Gly Val Ala Val Ala Ala Asp Leu Lys Ser Thr Gln Glu Ala Ile
1 5 10 15

Asn Lys

SEQ.List.txt

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<211> 29

<212> PRT

<213> Influenza B virus

<400> 129

His Gly Val Ala Val Ala Ala Asp Leu Lys Ser Thr Gln Glu Ala Ile
 1 5 10 15

Asn Lys Asp Thr Ile Ser Thr Gln Glu Ala Ile Asn Lys
 20 25

<210> 130

<211> 21

<212> PRT

<213> Influenza B virus

<400> 130

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

Gly Val Thr Thr His
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<210> 131

<211> 19

<212> PRT

<213> Influenza B virus

<400> 131

His Ser Asp Asn Glu Thr Gln Met Ala Lys Leu Tyr Gly Asp Ser Lys
 1 5 10 15

Pro Gln Lys

<210> 132

<211> 13

<212> PRT

<213> Influenza B virus

<400> 132

His Phe Ala Asn Leu Lys Gly Thr Gln Thr Arg Gly Lys
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SEQ.List.txt

<210> 133

<211> 12

<212> PRT

<213> Influenza B virus

<400> 133

Lys Pro Arg Ser Ala Leu Lys Cys Lys Gly Phe His
1 5 10

<210> 134

<211> 22

<212> PRT

<213> Influenza B virus

<220>

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<223> gly or ala

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Cys Pro Ile Trp Val Lys
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<211> 16

<212> PRT

<213> Influenza virus

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<223> val or ile

<220>

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<223> arg or lys

<220>

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<222> (14)

<223> ser or thr

SEQ.List.txt

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 <223> thr or ala

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 His Pro Xaa Thr Ile Gly Glu Cys Pro Lys Tyr Val Xaa Xaa Xaa Lys
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<210> 136
 <211> 21
 <212> PRT
 <213> Influenza virus

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<220>
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 <222> (13)
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 <222> (14)
 <223> asn or ser

<220>
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 <222> (17)
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<400> 136
 His Asp Ser Asn Val Lys Asn Leu Tyr Xaa Lys Val Xaa Xaa Gln Leu
 1 5 10 15

Xaa Asn Asn Ala Lys
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<210> 137
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 <212> PRT
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SEQ.List.txt

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 <222> (13)
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<220>
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 <222> (14)
 <223> asn or ser

<400> 137
 His Asp Ser Asn Val Lys Asn Leu Tyr Xaa Lys Val Xaa Xaa Gln Leu
 1 5 10 15

Lys

<210> 138
 <211> 36
 <212> PRT
 <213> Influenza virus

<220>
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 <222> (4)..(5)
 <223> asn or asp

<220>
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 <222> (6)
 <223> ala, thr or glu

<220>
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 <222> (12)
 <223> arg or lys

<220>
 <221> MOD_RES
 <222> (31)
 <223> glu or lys

SEQ.List.txt

<400> 138

His Lys Cys Xaa Xaa Xaa Cys Met Glu Ser Val Xaa Asn Gly Thr Tyr
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Asp Tyr Pro Lys Tyr Ser Glu Glu Ser Lys Leu Asn Arg Glu Xaa Ile
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Asp Gly Val Lys
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<210> 139

<211> 26

<212> PRT

<213> Influenza virus

<220>

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<222> (4)..(5)

<223> asn or asp

<220>

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<222> (6)

<223> ala, thr or glu

<220>

<221> MOD_RES

<222> (12)

<223> arg or lys

<400> 139

His Lys Cys Xaa Xaa Xaa Cys Met Glu Ser Val Xaa Asn Gly Thr Tyr
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Asp Tyr Pro Lys Tyr Ser Glu Glu Ser Lys
 20 25

<210> 140

<211> 50

<212> PRT

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<220>

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<222> (4)

<223> glu or gly

SEQ.List.txt

<220>

<221> MOD_RES

<222> (21)

<223> asp or asn

<400> 140

His Gln Asn Xaa Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
1 5 10 15

Gln Asn Ala Ile Xaa Gly Ile Thr Asn Lys Val Asn Ser Val Ile Glu
20 25 30

Lys Met Asn Thr Gln Phe Thr Ala Val Gly Lys Glu Phe Asn Lys Leu
35 40 45

Glu Lys
50

<210> 141

<211> 33

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (4)

<223> glu or gly

<220>

<221> MOD_RES

<222> (21)

<223> asp or asn

<400> 141

His Gln Asn Xaa Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
1 5 10 15

Gln Asn Ala Ile Xaa Gly Ile Thr Asn Lys Val Asn Ser Val Ile Glu
20 25 30

Lys

<210> 142

<211> 26

<212> PRT

SEQ.List.txt

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<220>

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<223> glu or gly

<220>

<221> MOD_RES

<222> (21)

<223> asp or asn

<400> 142

His Gln Asn Xaa Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
1 5 10 15

Gln Asn Ala Ile Xaa Gly Ile Thr Asn Lys
20 25

<210> 143

<211> 14

<212> PRT

<213> Influenza virus

<400> 143

Lys Phe Glu Ile Phe Pro Lys Thr Ser Ser Trp Pro Asn His
1 5 10

<210> 144

<211> 27

<212> PRT

<213> Influenza virus

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<223> asn, ser or thr

<220>

<221> MOD_RES

<222> (9)

<223> asn or ser

<220>

<221> MOD_RES

<222> (13)

SEQ.List.txt

<223> val or thr

<400> 144

Lys Gly Xaa Ser Tyr Pro Lys Leu Xaa Lys Ser Tyr Xaa Asn Asn Lys
1 5 10 15

Gly Lys Glu Val Leu Val Leu Trp Gly Val His
20 25

<210> 145

<211> 18

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (4)

<223> val or thr

<400> 145

Lys Ser Tyr Xaa Asn Asn Lys Gly Lys Glu Val Leu Val Leu Trp Gly
1 5 10 15

Val His

<210> 146

<211> 36

<212> PRT

<213> Influenza virus

<400> 146

His Lys Cys Asn Asn Glu Cys Met Glu Ser Val Lys Asn Gly Thr Tyr
1 5 10 15

Asp Tyr Pro Lys Tyr Ser Glu Glu Ser Lys Leu Asn Arg Glu Lys Ile
20 25 30

Asp Gly Val Lys
35

<210> 147

<211> 26

<212> PRT

<213> Influenza virus

SEQ.List.txt

<400> 147

His Lys Cys Asn Asn Glu Cys Met Glu Ser Val Lys Asn Gly Thr Tyr
1 5 10 15

Asp Tyr Pro Lys Tyr Ser Glu Glu Ser Lys
20 25

<210> 148

<211> 20

<212> PRT

<213> Influenza virus

<400> 148

His Lys Cys Asn Asn Glu Cys Met Glu Ser Val Lys Asn Gly Thr Tyr
1 5 10 15

Asp Tyr Pro Lys
20

<210> 149

<211> 12

<212> PRT

<213> Influenza virus

<400> 149

His Lys Cys Asn Asn Glu Cys Met Glu Ser Val Lys
1 5 10

<210> 150

<211> 34

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (9)

<223> lys or arg

<220>

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<222> (16)

<223> glu or gly

<400> 150

His Asn Gly Lys Ser Ser Phe Tyr Xaa Asn Leu Leu Trp Leu Thr Xaa

1 5 10 15

Glu Lys

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<222> (9)
<223> lys or arg...
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<400> 151
His Asn Gly Lys Ser Ser Phe Tyr Xaa Asn Leu Leu Trp Leu Thr Xaa
1 5 10 15

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<210> 152
<211> 26
<212> PRT
<213> Influenza virus
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<220>
<221> MOD_RES
<222> (9)
<223> lys or arg
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<220>  
<221> MOD_RES  
<222> (16)  
<223> glu or gly
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SEQ.List.txt

1 5 10 15

Lys Asn Gly Leu Tyr Pro Asn Leu Ser Lys
20 25

<210> 153
<211> 17
<212> PRT
<213> Influenza virus

<220>
<221> MOD_RES
<222> (9)
<223> lys or arg

<220>
<221> MOD_RES
<222> (16)
<223> glu or gly

<400> 153
His Asn Gly Lys Ser Ser Phe Tyr Xaa Asn Leu Leu Trp Leu Thr Xaa
1 5 10 15

Lys

<210> 154
<211> 40
<212> PRT
<213> Influenza virus

<400> 154
Lys Ser Ser Phe Tyr Lys Asn Leu Leu Trp Leu Thr Glu Lys Asn Gly
1 5 10 15

Leu Tyr Pro Asn Leu Ser Lys Ser Tyr Val Asn Asn Lys Glu Lys Glu
20 25 30

Val Leu Val Leu Trp Gly Val His
35 40

<210> 155
<211> 35
<212> PRT
<213> Influenza virus

SEQ.List.txt

<400> 155

Lys Asn Leu Leu Trp Leu Thr Glu Lys Asn Gly Leu Tyr Pro Asn Leu
1 5 10 15

Ser Lys Ser Tyr Val Asn Asn Lys Glu Lys Glu Val Leu Val Leu Trp
20 25 30

Gly Val His
35

<210> 156

<211> 27

<212> PRT

<213> Influenza virus

<400> 156

Lys Asn Gly Leu Tyr Pro Asn Leu Ser Lys Ser Tyr Val Asn Asn Lys
1 5 10 15

Glu Lys Glu Val Leu Val Leu Trp Gly Val His
20 25

<210> 157

<211> 18

<212> PRT

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<220>

<221> MOD_RES

<222> (4)

<223> val or ala

<220>

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<222> (12)

<223> lys or not present

<220>

<221> MOD_RES

<222> (13)

<223> val or not present

<400> 157

Lys Ser Tyr Xaa Asn Asn Lys Glu Lys Glu Val Xaa Xaa Leu Trp Gly
1 5 10 15

SEQ.List.txt

Val His

<210> 158

<211> 12

<212> PRT

<213> Influenza virus

<400> 158

Lys Glu Ser Ser Trp Pro Asn His Thr Val Thr Lys
1 5 10

<210> 159

<211> 44

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (4)

<223> thr or asn

<400> 159

His Glu Thr Xaa Lys Gly Val Thr Ala Ala Cys Pro Tyr Ala Gly Ala
1 5 10 15

Ser Ser Phe Tyr Arg Asn Leu Leu Trp Leu Val Lys Lys Glu Asn Ser
20 25 30

Tyr Pro Lys Leu Ser Lys Ser Tyr Val Asn Asn Lys
35 40

<210> 160

<211> 38

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (4)

<223> thr or asn

<400> 160

His Glu Thr Xaa Lys Gly Val Thr Ala Ala Cys Pro Tyr Ala Gly Ala
1 5 10 15

SEQ.List.txt

Ser Ser Phe Tyr Arg Asn Leu Leu Trp Leu Val Lys Lys Glu Asn Ser
 20 25 30

Tyr Pro Lys Leu Ser Lys
 35

<210> 161
 <211> 22
 <212> PRT
 <213> Influenza virus

<400> 161
 Lys Phe Glu Ile Phe Pro Lys Thr Ser Ser Trp Pro Asn Glu Val Leu
 1 5 10 15

Val Leu Trp Gly Val His
 20

<210> 162
 <211> 8
 <212> PRT
 <213> Influenza virus

<400> 162
 Lys Glu Arg Ser Trp Pro Lys His
 1 5

<210> 163
 <211> 21
 <212> PRT
 <213> Influenza virus

<400> 163
 Lys Leu Ser Lys Ser Tyr Val Asn Asn Lys Glu Lys Glu Val Leu Val
 1 5 10 15

Leu Trp Gln Val His
 20

<210> 164
 <211> 15
 <212> PRT
 <213> Influenza virus

SEQ.List.txt

<400> 164

Lys Asn Asn Lys Glu Lys Glu Val Leu Val Leu Trp Gln Val His
 1 5 10 15

<210> 165

<211> 34

<212> PRT

<213> Influenza virus.

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<223> lys or asn

<220>

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<222> (20)

<223> lys or ser

<220>

<221> MOD_RES

<222> (23)

<223> asn or thr

<400> 165

His Xaa Xaa Lys Ser Ser Phe Tyr Xaa Asn Leu Leu Trp Leu Thr Glu
 1 5 10 15

Lys Asn Gly Xaa Tyr Pro Xaa Leu Ser Lys Ser Tyr Ala Asn Asn Lys
 20 25 30

Glu Lys

<210> 166

<211> 17

SEQ.List.txt

<212> PRT
<213> Influenza virus

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<223> lys or asn

<220>
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<222> (3)
<223> gly or gln

<220>
<221> MOD_RES
<222> (9)
<223> arg or lys

<400> 166
His Xaa Xaa Lys Ser Ser Phe Tyr Xaa Asn Leu Leu Trp Leu Thr Glu
1 5 10 15

Lys

<210> 167
<211> 9
<212> PRT
<213> Influenza virus

<400> 167
His Ala Lys Lys Ser Ser Phe Tyr Lys
1 5

<210> 168
<211> 11
<212> PRT
<213> Influenza virus

<400> 168
His Asn Gly Lys Leu Cys Arg Leu Lys Gly Lys
1 5 10

<210> 169
<211> 9
<212> PRT

SEQ.List.txt

<213> Influenza virus

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<221> MOD_RES

<222> (7)

<223> gln or gly

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His Tyr Lys Leu Asn Asn Xaa Lys Lys
1 5

<210> 170

<211> 25

<212> PRT

<213> Influenza virus

<400> 170

His Asp Ile Tyr Arg Asp Glu Ala Ile Asn Asn Arg Phe Gln Ile Gln
1 5 10 15

Gly Val Lys Leu Thr Gln Gly Tyr Lys
20 25

<210> 171

<211> 11

<212> PRT

<213> Influenza virus

<400> 171

Lys Gly Asn Gly Cys Phe Glu Ile Phe His Lys
1 5 10

<210> 172

<211> 18

<212> PRT

<213> Influenza virus

<400> 172

Lys Leu Asn Arg Leu Ile Glu Lys Thr Asn Asp Lys Tyr His Gln Ile
1 5 10 15

Glu Lys

<210> 173

SEQ.List.txt

<211> 14
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 Lys Leu Asn Arg Leu Ile Glu Lys Thr Asn Asp Lys Tyr His
 1 5 10

<210> 174
 <211> 13
 <212> PRT
 <213> Influenza virus

<400> 174
 Lys Cys His Thr Asp Lys Gly Ser Leu Ser Thr Thr Lys
 1 5 10

<210> 175
 <211> 16
 <212> PRT
 <213> Influenza virus

<400> 175
 Lys Ile Asn Asn Gly Asp Tyr Ala Lys Leu Tyr Ile Trp Gly Val His
 1 5 10 15

<210> 176
 <211> 17
 <212> PRT
 <213> Influenza virus

<400> 176
 His Asn Gly Lys Leu Cys Arg Lys Gly Ile Ala Pro Leu Gln Leu Gly
 1 5 10 15

Lys

<210> 177
 <211> 38
 <212> PRT
 <213> Influenza virus

<400> 177
 His Glu Thr Asn Arg Gln Val Thr Ala Ala Cys Pro Tyr Ala Gly Ala

SEQ.List.txt

1 5 10 15

Asn Ser Phe Phe Arg Asn Leu Ile Trp Leu Val Lys Lys Glu Ser Ser
20 25 30

Tyr Pro Lys Leu Ser Lys
35

<210> 178

<211> 35

<212> PRT

<213> Influenza virus

<400> 178

His Glu Thr Asn Arg Gln Val Thr Ala Ala Cys Pro Tyr Ala Gly Ala
1 5 10 15

Asn Ser Phe Phe Arg Asn Leu Ile Trp Leu Val Lys Lys Glu Ser Ser
20 25 30

Tyr Pro Lys
35

<210> 179

<211> 31

<212> PRT

<213> Influenza virus

<400> 179

His Pro Pro Thr Ser Thr Asp Gln Gln Ser Leu Tyr Gln Asn Ala Asp
1 5 10 15

Ala Tyr Ile Phe Val Gly Ser Ser Lys Tyr Asn Arg Lys Phe Lys
20 25 30

<210> 180

<211> 35

<212> PRT

<213> Influenza virus

<400> 180

His Pro Pro Thr Ser Thr Asp Gln Gln Ser Leu Tyr Gln Asn Ala Asp
1 5 10 15

Ala Tyr Ile Phe Val Gly Ser Ser Lys Tyr Asn Arg Lys Phe Lys Pro

SEQ.List.txt

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25

30

Glu Ile Ala
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<211> 25
<212> PRT
<213> Influenza virus

<400> 181
His Asp Ile Tyr Arg Asp Glu Ala Ile Asn Asn Arg Phe Gln Ile Gln
1 5 10 15

Gly Val Lys Ile Thr Gln Gly Tyr Lys
20 25

<210> 182
<211> 43
<212> PRT
<213> Influenza virus

<400> 182
His Gln Asn Glu Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
1 5 10 15

Gln Asn Ala Ile Asp Gly Ile Thr Asn Lys Val Asn Ser Val Ile Glu
20 25 30

Lys Met Asn Thr Gln Phe Thr Ala Val Gly Lys
35 40

<210> 183
<211> 33
<212> PRT
<213> Influenza virus

<400> 183
His Gln Asn Glu Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
1 5 10 15

Gln Asn Ala Ile Asp Gly Ile Thr Asn Lys Val Asn Ser Val Ile Glu
20 25 30

Lys

SEQ.List.txt

<210> 184
 <211> 50
 <212> PRT
 <213> Influenza virus

<400> 184
 His Gln Asn Glu Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
 1 5 10 15
 Gln Asn Ala Ile Asn Gly Ile Thr Asn Lys Val Asn Ser Val Ile Glu
 20 25 30
 Lys Met Asn Thr Gln Phe Thr Ala Val Gly Lys Glu Phe Asn Lys Leu
 35 40 45
 Glu Lys
 50

<210> 185
 <211> 18
 <212> PRT
 <213> Influenza virus

<400> 185
 His Asn Gly Lys Leu Cys Arg Leu Lys Gly Ile Ala Pro Leu Gln Leu
 1 5 10 15
 Gly Lys

<210> 186
 <211> 12
 <212> PRT
 <213> Influenza virus

<400> 186
 His Lys Cys Asn Asn Glu Cys Met Glu Ser Val Lys
 1 5 10

<210> 187
 <211> 14
 <212> PRT
 <213> Influenza virus

SEQ.List.txt

<400> 187

Lys Phe Glu Ile Phe Pro Lys Ala Ser Ser Trp Pro Asn His
1 5 10

<210> 188

<211> 21

<212> PRT

<213> Influenza virus

<400> 188

His Asp Ser Asn Val Lys Asn Leu Tyr Glu Lys Val Arg Ser Gln Leu
1 5 10 15

Arg Asn Asn Ala Lys
20

<210> 189

<211> 22

<212> PRT

<213> Influenza virus

<400> 189

Lys Val Asn Ser Val Ile Lys Lys Met Asn Thr Gln Phe Ala Ala Val
1 5 10 15

Gly Lys Glu Phe Asn His
20

<210> 190

<211> 8

<212> PRT

<213> Influenza virus

<400> 190

Lys His Asn Gly Lys Leu Cys Lys
1 5

<210> 191

<211> 28

<212> PRT

<213> Influenza virus

<400> 191

Lys Lys Gly Thr Ser Tyr Pro Lys Leu Ser Lys Ser Tyr Thr His Asn

SEQ.List.txt

1 5 10 15

Lys Gly Lys Glu Val Leu Val Leu Trp Gly Val His
20 25

<210> 192

<211> 27

<212> PRT

<213> Influenza virus

<400> 192

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

Gly Lys Glu Val Leu Val Leu Trp Gly Val His
20 25

<210> 193

<211> 21

<212> PRT

<213> Influenza virus

<400> 193

Lys Leu Ser Lys Ser Tyr Thr His Asn Lys Gly Lys Glu Val Leu Val
1 5 10 15

Leu Trp Gly Val His
20

<210> 194

<211> 18

<212> PRT

<213> Influenza virus

<400> 194

Lys Ser Tyr Thr His Asn Lys Gly Lys Glu Val Leu Val Leu Trp Gly
1 5 10 15

Val His

<210> 195

<211> 10

<212> PRT

<213> Influenza virus

SEQ.List.txt

<400> 195

Lys Gly Val Thr Ala Ser Cys Ser His Lys
1 5 10

<210> 196

<211> 34

<212> PRT

<213> Influenza virus

<400> 196

Lys Gly Val Thr Ala Ser Cys Ser His Lys Gly Arg Ser Ser Phe Tyr
1 5 10 15

Arg Asn Leu Leu Trp Leu Thr Glu Lys Asn Gly Leu Tyr Pro Asn Leu
20 25 30

Ser Lys

<210> 197

<211> 27

<212> PRT

<213> Influenza virus

<400> 197

Lys Gly Asn Ser Tyr Pro Lys Leu Ser Lys Ser Tyr Val Asn Asn Lys
1 5 10 15

Glu Lys Glu Val Leu Val Leu Trp Gly Ile His
20 25

<210> 198

<211> 8

<212> PRT

<213> Influenza virus

<400> 198

Lys Glu Phe Asn His Leu Glu Lys
1 5

<210> 199

<211> 39

<212> PRT

<213> Influenza virus

SEQ.List.txt

<400> 199

His Pro Pro Thr Ser Thr Asp Gln Gln Ser Leu Tyr Gln Asn Ala Asp
1 5 10 15

Ala Tyr Val Phe Val Gly Ser Ser Lys Tyr Asn Lys Lys Phe Lys Pro
20 25 30

Glu Ile Ala Thr Arg Pro Lys
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<210> 200

<211> 31

<212> PRT

<213> Influenza virus

<400> 200

His Pro Pro Thr Ser Thr Asp Gln Gln Ser Leu Tyr Gln Asn Ala Asp
1 5 10 15

Ala Tyr Val Phe Val Gly Ser Ser Lys Tyr Asn Lys Lys Phe Lys
20 25 30

<210> 201

<211> 31

<212> PRT

<213> Influenza virus

<400> 201

His Glu Gly Lys Ser Ser Phe Tyr Arg Asn Leu Leu Trp Leu Thr Glu
1 5 10 15

Lys Glu Gly Ser Tyr Pro Lys Leu Lys Asn Ser Tyr Val Asn Lys
20 25 30

<210> 202

<211> 23

<212> PRT

<213> Influenza virus

<400> 202

His Glu Gly Lys Ser Ser Phe Tyr Arg Asn Leu Leu Trp Leu Thr Glu
1 5 10 15

Lys Glu Gly Ser Tyr Pro Lys

<210> 203
 <211> 26
 <212> PRT
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<400> 203
 His Lys Cys Asp Asn Glu Cys Met Glu Ser Val Arg Asn Gly Thr Tyr
 1 5 10 15
 Asp Tyr Pro Lys Tyr Ser Glu Glu Ser Lys
 20 25

<210> 204
 <211> 12
 <212> PRT
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<400> 204
 Lys Glu Ser Ser Trp Pro Asn His Thr Val Thr Lys
 1 5 10

<210> 205
 <211> 35
 <212> PRT
 <213> Influenza virus

<400> 205
 Lys Asn Leu Leu Trp Leu Thr Glu Lys Asn Gly Leu Tyr Pro Asn Leu
 1 5 10 15

Ser Lys Ser Tyr Val Asn Asn Lys Glu Lys Glu Ile Leu Val Leu Trp
 20 25 30

Gly Val His
 35

<210> 206
 <211> 27
 <212> PRT
 <213> Influenza virus

<220>

SEQ.List.txt

<221> MOD_RES
 <222> (9)
 <223> lys or met

<220>
 <221> MOD_RES
 <222> (10)
 <223> asn or not present

<220>
 <221> MOD_RES
 <222> (16)
 <223> glu or gly

<220>
 <221> MOD_RES
 <222> (17)
 <223> not present or lys

<400> 206
 His Asn Gly Lys Ser Ser Phe Tyr Xaa Xaa Leu Leu Trp Leu Thr Xaa
 1 5 10 15
 Xaa Lys Asn Gly Leu Tyr Pro Asn Leu Ser Lys
 20 25

<210> 207
 <211> 17
 <212> PRT
 <213> Influenza virus

<400> 207
 His Asn Gly Lys Ser Ser Phe Tyr Lys Asn Leu Leu Trp Leu Thr Glu
 1 5 10 15

Lys

<210> 208
 <211> 55
 <212> PRT
 <213> Influenza virus

<400> 208
 His Thr Val Thr Lys Gly Val Thr Ala Ser Cys Ser His Asn Gly Lys
 1 5 10 15

SEQ.List.txt

Ser Ser Phe Tyr Lys Asn Leu Leu Trp Leu Thr Glu Lys Asn Gly Leu
20 25 30

Tyr Pro Asn Leu Ser Lys Ser Tyr Val Asn Asn Lys Glu Lys Glu Val
35 40 45

Leu Val Leu Trp Gly Val His
50 55

<210> 209
<211> 38
<212> PRT
<213> Influenza virus

<220>
<221> MOD_RES
<222> (5)
<223> lys or gly

<220>
<221> MOD_RES
<222> (8)
<223> thr or ser

<220>
<221> MOD_RES
<222> (21)
<223> lys or met

<220>
<221> MOD_RES
<222> (22)
<223> asn or not present

<220>
<221> MOD_RES
<222> (28)
<223> glu or gly

<220>
<221> MOD_RES
<222> (30)
<223> asn present or not or lys

<400> 209
His Thr Val Thr Xaa Gly Val Xaa Ala Ser Cys Ser His Asn Gly Lys
1 5 10 15

SEQ.List.txt

Ser Ser Phe Tyr Xaa Xaa Leu Leu Trp Leu Thr Xaa Lys Xaa Gly Leu
20 25 30

Tyr Pro Asn Leu Ser Lys
35

<210> 210

<211> 29

<212> PRT

<213> Influenza virus

<400> 210

His Thr Val Thr Lys Gly Val Thr Ala Ser Cys Ser His Asn Gly Lys
1 5 10 15

Ser Ser Phe Tyr Lys Asn Leu Leu Trp Leu Thr Glu Lys
20 25

<210> 211

<211> 48

<212> PRT

<213> Influenza virus

<400> 211

Lys Tyr Val Arg Ser Thr Lys Leu Arg Met Val Thr Gly Leu Arg Asn
1 5 10 15

Ile Pro Ser Ile Gln Ser Arg Gly Leu Phe Gly Ala Ile Ala Gly Phe
20 25 30

Ile Glu Gly Gly Trp Thr Gly Met Ile Asp Gly Trp Tyr Gly Tyr His
35 40 45

<210> 212

<211> 43

<212> PRT

<213> Influenza virus

<400> 212

His Gln Asn Glu Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
1 5 10 15

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

SEQ.List.txt

Lys Met Asn Thr Gln Phe Thr Ala Val Gly Lys
 35 40

<210> 213
 <211> 33
 <212> PRT
 <213> Influenza virus

<400> 213
 His Gln Asn Glu Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
 1 5 10 15

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

Lys

<210> 214
 <211> 26
 <212> PRT
 <213> Influenza virus

<400> 214
 His Gln Asn Glu Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
 1 5 10 15

Gln Asn Ala Ile Asn Gly Ile Thr Asn Lys
 20 25

<210> 215
 <211> 23
 <212> PRT
 <213> Influenza virus

<400> 215
 His Ser Gly Ala Arg Ser Phe Tyr Arg Asn Leu Leu Trp Ile Val Lys
 1 5 10 15

Lys Gly Asn Ser Tyr Pro Lys
 20

<210> 216
 <211> 26

SEQ.List.txt

<212> PRT

<213> Influenza virus

<400> 216

His Ser Gly Ala Arg Ser Phe Tyr Arg Asn Leu Leu Trp Ile Val Lys
1 5 10 15

Lys Gly Asn Ser Tyr Pro Lys Leu Asn Lys
20 25

<210> 217

<211> 32

<212> PRT

<213> Influenza virus

<400> 217

His Ser Gly Ala Arg Ser Phe Tyr Arg Asn Leu Leu Trp Ile Val Lys
1 5 10 15

Lys Gly Asn Ser Tyr Pro Lys Leu Asn Lys Ser Tyr Thr Asn Asp Lys
20 25 30

<210> 218

<211> 34

<212> PRT

<213> Influenza virus

<400> 218

His Ser Gly Ala Arg Ser Phe Tyr Arg Asn Leu Leu Trp Ile Val Lys
1 5 10 15

Lys Gly Asn Ser Tyr Pro Lys Leu Asn Lys Ser Tyr Thr Asn Asp Lys
20 25 30

Gly Lys

<210> 219

<211> 16

<212> PRT

<213> Influenza virus

<400> 219

His Thr Val Ser Lys Gly Val Thr Thr Ser Cys Ser His Asn Gly Lys
1 5 10 15

SEQ.List.txt

<210> 220
 <211> 12
 <212> PRT
 <213> Influenza virus

<400> 220
 Lys Ala Thr Ser Trp Pro Asn His Glu Thr Thr Lys
 1 5 10

<210> 221
 <211> 12
 <212> PRT
 <213> Influenza virus

<400> 221
 Lys Gln Val Thr Thr Ser Cys Ser His Asn Gln Lys
 1 5 10

<210> 222
 <211> 27
 <212> PRT
 <213> Influenza virus

<400> 222
 Lys Gly Asn Ser Tyr Pro Lys Leu Asn Lys Ser Tyr Thr Asn Asp Lys
 1 5 10 15

Gly Lys Glu Val Leu Val Ile Trp Gly Val His
 20 25

<210> 223
 <211> 21
 <212> PRT
 <213> Influenza virus

<400> 223
 Lys Leu Asn Lys Ser Tyr Thr Asn Asp Lys Gly Lys Glu Val Leu Val
 1 5 10 15

Ile Trp Gly Val His
 20

<210> 224

SEQ.List.txt

<211> 18
 <212> PRT
 <213> Influenza virus
 <400> 224
 Lys Ser Tyr Thr Asn Asp Lys Gly Lys Glu Val Leu Val Ile Trp Gly
 1 5 10 15

Val His

<210> 225
 <211> 35
 <212> PRT
 <213> Influenza virus

<220>
 <221> MOD_RES
 <222> (16)
 <223> glu or gln

<220>
 <221> MOD_RES
 <222> (29)
 <223> val or ala

<400> 225
 His Asn Gln Lys Ser Ser Phe Tyr Arg Asn Leu Leu Trp Leu Thr Xaa
 1 5 10 15
 Lys Asn Gly Leu Tyr Pro Asn Leu Ser Lys Ser Tyr Xaa Ala Asn Asn
 20 25 30

Lys Glu Lys
 35

<210> 226
 <211> 16
 <212> PRT
 <213> Influenza virus

<400> 226
 His Pro Ile Thr Ile Gly Glu Cys Pro Lys Tyr Val Arg Ser Ala Lys
 1 5 10 15

<210> 227

SEQ.List.txt

<211> 43
 <212> PRT
 <213> Influenza virus

<400> 227

His Gln Asn Glu Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
 1 5 10 15

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

Lys Met Asn Thr Gln Phe Thr Ala Val Gly Lys
 35 40

<210> 228
 <211> 33
 <212> PRT
 <213> Influenza virus

<400> 228

His Gln Asn Glu Gln Gly Ser Gly Tyr Ala Ala Asp Gln Lys Ser Thr
 1 5 10 15

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

Lys

<210> 229
 <211> 34
 <212> PRT
 <213> Influenza virus

<400> 229

His Asn Gly Lys Ser Ser Phe Tyr Arg Asn Leu Leu Trp Leu Thr Glu
 1 5 10 15

Lys Asn Gly Leu Tyr Pro Asn Leu Ser Lys Ser Tyr Val Asn Asn Lys
 20 25 30

Glu Lys

<210> 230
 <211> 11
 <212> PRT

SEQ.List.txt

<213> Influenza virus

<400> 230

Lys His Phe Glu Lys Val Lys Ile Leu Pro Lys
1 5 10

<210> 231

<211> 14

<212> PRT

<213> Influenza virus

<400> 231

Lys His Leu Leu Ser Ser Val Lys His Phe Glu Lys Val Lys
1 5 10

<210> 232

<211> 13

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (3)

<223> lys, gln or met

<220>

<221> MOD_RES

<222> (4)

<223> asp or asn

<400> 232

His Ala Xaa Xaa Ile Leu Glu Lys Thr His Asn Gly Lys
1 5 10

<210> 233

<211> 16

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (3)

<223> lys, gln or met

<220>

SEQ:List.txt

<221> MOD_RES
 <222> (4)
 <223> asp or asn

<220>
 <221> MOD_RES
 <222> (16)
 <223> lys or arg

<400> 233
 His Ala Xaa Xaa Ile Leu Glu Lys Thr His Asn Gly Lys Leu Cys Xaa
 1 5 10 15

<210> 234
 <211> 19
 <212> PRT
 <213> Influenza virus

<400> 234
 His Asn Val His Pro Leu Thr Ile Gly Glu Cys Pro Lys Tyr Val Lys
 1 5 10 15

Ser Glu Lys

<210> 235
 <211> 16
 <212> PRT
 <213> Influenza virus

<400> 235
 His Pro Leu Thr Ile Gly Glu Cys Pro Lys Tyr Val Lys Ser Glu Lys
 1 5 10 15

<210> 236
 <211> 18
 <212> PRT
 <213> Influenza virus

<400> 236
 Lys His Leu Leu Ser Ser Val Lys His Phe Glu Lys Val Lys Ile Leu
 1 5 10 15

Pro Lys

SEQ.List.txt

<210> 237

<211> 38

<212> PRT

<213> Influenza virus

<400> 237

Lys Arg Gln Ser Ser Gly Ile Met Lys Thr Glu Gly Thr Leu Glu Asn
1 5 10 15

Cys Glu Thr Lys Cys Gln Thr Pro Leu Gly Ala Ile Asn Thr Thr Leu
20 25 30

Pro Phe His Asn Val His
35

<210> 238

<211> 27

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (7)

<223> val or ile

<220>

<221> MOD_RES

<222> (10)

<223> gly or arg

<220>

<221> MOD_RES

<222> (26)

<223> val or ile

<400> 238

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

Gly Glu Gln Met Leu Ile Ile Trp Gln Xaa His
20 25

<210> 239

<211> 36

<212> PRT

<213> Influenza virus

SEQ.List.txt

<400> 239

His Thr Thr Leu Gly Gln Ser Arg Ala Cys Ala Val Ser Gly Asn Pro
 1 5 10 15
 Ser Phe Phe Arg Asn Met Val Trp Leu Thr Glu Lys Gly Ser Asn Tyr
 20 25 30
 Pro Val Ala Lys
 35

<210> 240

<211> 7

<212> PRT

<213> Influenza virus

<400> 240

Lys His Phe Glu Lys Val Lys
 1 5

<210> 241

<211> 38

<212> PRT

<213> Influenza virus

<400> 241

Lys Ile Ser Lys Arg Gly Ser Ser Gly Ile Met Lys Thr Glu Gly Thr
 1 5 10 15
 Leu Glu Asn Cys Glu Thr Lys Cys Gln Thr Pro Leu Gly Ala Ile Asn
 20 25 30
 Thr Thr Leu Pro Phe His
 35

<210> 242

<211> 35

<212> PRT

<213> Influenza virus

<400> 242

Lys Arg Gly Ser Ser Gly Ile Met Lys Thr Glu Gly Thr Leu Glu Asn
 1 5 10 15
 Cys Glu Thr Lys Cys Gln Thr Pro Leu Gly Ala Ile Asn Thr Thr Leu

SEQ.List.txt

20

25

30

Pro Phe His

35

<210> 243

<211> 27

<212> PRT

<213> Influenza virus

<400> 243

Lys Thr Glu Gly Thr Leu Glu Asn Cys Glu Thr Lys Cys Gln Thr Pro
1 5 10 15

Leu Gly Ala Ile Asn Thr Thr Leu Pro Phe His
20 25

<210> 244

<211> 38

<212> PRT

<213> Influenza virus

<400> 244

Lys Ile Ser Lys Arg Gly Ser Ser Gly Ile Met Lys Thr Glu Gly Thr
1 5 10 15

Leu Glu Asn Cys Glu Thr Lys Cys Gln Thr Pro Leu Gly Ala Ile Asn
20 25 30

Thr Thr Leu Pro Phe His
35

<210> 245

<211> 30

<212> PRT

<213> Influenza virus

<220>

<221> MOD RES

<222> (29)

<223> val or ile

<400> 245

Lys Thr Glu Gly Thr Leu Glu Asn Cys Glu Thr Lys Cys Gln Thr Pro
1 5 10 15

SEQ.List.txt

Leu Gly Ala Ile Asn Thr Thr Leu Pro Phe His Asn Xaa His
 20 25 30

<210> 246

<211> 38

<212> PRT

<213> Influenza virus

<400> 246

Lys Ile Ser Lys Arg Gly Ser Ser Gly Ile Met Lys Thr Glu Gly Thr
 1 5 10 15

Leu Glu Asn Cys Glu Thr Lys Cys Gln Thr Pro Leu Gly Ala Ile Asn
 20 25 30

Thr Thr Leu Pro Phe His
 35

<210> 247

<211> 27

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (2)

<223> glu or gly

<400> 247

Lys Xaa Ser Asn Tyr Pro Val Ala Lys Gly Ser Tyr Asn Asn Thr Ser
 1 5 10 15

Gly Glu Gln Met Leu Ile Ile Trp Gly Val His
 20 25

<210> 248

<211> 16

<212> PRT

<213> Influenza virus

<400> 248

His Pro Leu Thr Ile Gly Glu Cys Pro Lys Tyr Val Lys Ser Glu Lys
 1 5 10 15

SEQ.List.txt

<210> 249
 <211> 16
 <212> PRT
 <213> Influenza virus

<400> 249
 Lys Cys Gln Thr Pro Leu Gly Ala Ile Lys Thr Thr Leu Pro Phe His
 1 5 10 15

<210> 250
 <211> 58
 <212> PRT
 <213> Influenza virus

<220>
 <221> MOD_RES
 <222> (21)
 <223> phe or ile

<220>
 <221> MOD_RES
 <222> (47)
 <223> asn or ser

<400> 250
 His His Ser Asn Asp Gln Gly Ser Gly Tyr Ala Ala Asp Lys Glu Ser
 1 5 10 15

Thr Gln Lys Ala Xaa Asp Gly Ile Thr Asn Lys Val Asn Ser Val Ile
 20 25 30

Glu Lys Met Asn Thr Gln Phe Glu Ala Val Gly Lys Leu Phe Xaa Asn
 35 40 45

Leu Glu Lys Leu Glu Asn Leu Asn Lys Lys
 50 55

<210> 251
 <211> 57
 <212> PRT
 <213> Influenza virus

<220>
 <221> MOD_RES
 <222> (20)

SEQ.List.txt

<223> phe or ile

<220>

<221> MOD RES

<222> (46)

<223> asn or ser

<400> 251

His Ser Asn Asp Gln Gly Ser Gly Tyr Ala Ala Asp Lys Glu Ser Thr
1 5 10 15

Gln Lys Ala Xaa Asp Gly Ile Thr Asn Lys Val Asn Ser Val Ile Glu
20 25 30

Lys Met Asn Thr Gln Phe Glu Ala Val Gly Lys Leu Phe Xaa Asn Leu
35 40 45

Glu Lys Leu Glu Asn Leu Asn Lys Lys
50 55

<210> 252

<211> 26

<212> PRT

<213> Influenza virus

<220>

<221> MOD RES

<222> (20)

<223> phe or ile

<400> 252

His Ser Asn Asp Gln Gly Ser Gly Tyr Ala Ala Asp Lys Glu Ser Thr
1 5 10 15

Gln Lys Ala Xaa Asp Gly Ile Thr Asn Lys
20 25

<210> 253

<211> 21

<212> PRT

<213> Influenza virus

<400> 253

His Asp Ser Asn Val Arg Asn Leu Tyr Asp Lys Val Arg Met Gln Leu
1 5 10 15

SEQ.List.txt

Arg Asp Asn Ala Lys
20

<210> 254
<211> 30
<212> PRT
<213> Influenza virus

<400> 254
His Lys Cys Asp Asp Glu Cys Met Asn Ser Val Lys Asn Gly Thr Tyr
1 5 10 15
Asp Tyr Pro Lys Leu Asn Arg Asn Glu Ile Lys Gly Val Lys
20 25 30

<210> 255
<211> 27
<212> PRT
<213> Influenza virus

<400> 255
His Lys Cys Asp Asp Glu Cys Met Asn Ser Val Lys Asn Gly Thr Tyr
1 5 10 15
Asp Tyr Pro Lys Leu Asn Arg Asn Glu Ile Lys
20 25

<210> 256
<211> 20
<212> PRT
<213> Influenza virus

<400> 256
His Lys Cys Asp Asp Glu Cys Met Asn Ser Val Lys Asn Gly Thr Tyr
1 5 10 15
Asp Tyr Pro Lys
20

<210> 257
<211> 12
<212> PRT
<213> Influenza virus

SEQ.List.txt

<400> 257

His Lys Cys Asp Asp Glu Cys Met Asn Ser Val Lys
1 5 10

<210> 258

<211> 27

<212> PRT

<213> Influenza virus

<400> 258

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

Gly Glu Gln Ile Leu Ile Ile Trp Gly Val His
20 25

<210> 259

<211> 43

<212> PRT

<213> Influenza virus

<400> 259

His Ser Asn Asp Gln Gly Ser Gly Tyr Ala Ala Asp Lys Glu Ser Thr
1 5 10 15

Gln Lys Ala Val Asp Gly Ile Thr Asn Lys Val Asn Ser Val Ile Glu
20 25 30

Lys Met Asn Thr Gln Phe Glu Ala Val Gly Lys
35 40

<210> 260

<211> 35

<212> PRT

<213> Influenza virus

<400> 260

Lys Arg Gly Ser Ser Gly Ile Met Lys Thr Glu Gly Thr Leu Glu Asn
1 5 10 15

Cys Glu Thr Lys Cys Gln Thr Pro Leu Gly Ala Ile Asn Thr Thr Leu
20 25 30

Pro Phe His
35

SEQ.List.txt

<210> 261
 <211> 16
 <212> PRT
 <213> Influenza virus

<400> 261
 His Pro Leu Thr Ile Gly Glu Cys Pro Lys Tyr Val Lys Ser Glu Lys
 1 5 10 15

<210> 262
 <211> 16
 <212> PRT
 <213> Influenza virus

<400> 262
 His Ala Lys Asp Ile Leu Glu Lys Thr His Asn Gly Lys Leu Cys Lys
 1 5 10 15

<210> 263
 <211> 25
 <212> PRT
 <213> Influenza virus

<400> 263
 His Asp Val Tyr Arg Asp Glu Ala Leu Asn Asn Arg Phe Gln Ile Lys
 1 5 10 15

Gly Val Glu Leu Lys Ser Gly Tyr Lys
 20 25

<210> 264
 <211> 19
 <212> PRT
 <213> Influenza virus

<400> 264
 His Thr Ile Asp Leu Thr Asp Ser Glu Met Asn Lys Leu Phe Glu Arg
 1 5 10 15

Thr Arg Lys

<210> 265

SEQ.List.txt

<211> 7
 <212> PRT
 <213> Influenza virus

<400> 265
 Lys Phe His Gln Ile Glu Lys
 1 5

<210> 266
 <211> 11
 <212> PRT
 <213> Influenza virus

<220>
 <221> MOD_RES
 <222> (8)
 <223> gly or gln

<400> 266
 Lys Thr Asn Glu Lys Phe His Xaa Ile Glu Lys
 1 5 10

<210> 267
 <211> 14
 <212> PRT
 <213> Influenza virus

<220>
 <221> MOD_RES
 <222> (5)
 <223> val or leu

<400> 267
 Lys Leu Asn Arg Xaa Ile Glu Lys Thr Asn Glu Lys Phe His
 1 5 10

<210> 268
 <211> 25
 <212> PRT
 <213> Influenza virus

<400> 268
 His Gln Ile Glu Lys Glu Phe Ser Glu Val Glu Gly Arg Ile Gln Asp
 1 5 10 15

SEQ.List.txt

Leu Glu Lys Tyr Val Glu Asp Thr Lys
20 25

<210> 269
<211> 8
<212> PRT
<213> Influenza virus

<400> 269
Lys Ile Cys Asn Asn Pro His Lys
1 5

<210> 270
<211> 14
<212> PRT
<213> Influenza virus

<400> 270
Lys Leu Asn Arg Val Ile Lys Lys Thr Asn Glu Lys Phe His
1 5 10

<210> 271
<211> 24
<212> PRT
<213> Influenza virus

<220>
<221> MOD_RES
<222> (3)
<223> ile or val

<220>
<221> MOD_RES
<222> (17)
<223> gly or gln

<220>
<221> MOD_RES
<222> (20)
<223> arg or lys

<220>
<221> MOD_RES
<222> (22)
<223> gln or gly

SEQ.List.txt

<400> 271

His Asp Xaa Tyr Arg Asp Glu Ala Leu Asn Asn Arg Phe Gln Ile Lys
1 5 10 15

Xaa Val Glu Xaa Ser Xaa Tyr Lys
20

<210> 272

<211> 25

<212> PRT

<213> Influenza virus

<400> 272

His Gln Ile Glu Lys Glu Phe Ser Glu Val Glu Gly Arg Ile Gln Asp
1 5 10 15

Leu Glu Lys Tyr Val Glu Asp Thr Lys
20 25

<210> 273

<211> 25

<212> PRT

<213> Influenza virus

<400> 273

Lys Tyr Val Glu Asp Thr Lys Ile Asp Leu Trp Ser Tyr Asn Ala Glu
1 5 10 15

Leu Leu Val Ala Leu Glu Asn Gln His
20 25

<210> 274

<211> 49

<212> PRT

<213> Influenza virus

<400> 274

Lys Tyr Val Lys Gln Asn Ser Leu Lys Leu Ala Thr Gly Met Arg Asn
1 5 10 15

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

Ile Glu Asn Gly Trp Glu Gly Met Ile Asp Gly Trp Tyr Gly Phe Arg

His

<210> 275
<211> 39
<212> PRT
<213> Influenza virus

<400> 275
Lys Glu Phe Ser Glu Val Glu Gly Arg Ile Gln Asp Leu Glu Lys Tyr
1 5 10 15

Val Glu Asp Thr Lys Ile Asp Leu Trp Ser Tyr Asn Ala Glu Leu Leu
20 25 30

Val Ala Leu Glu Asn Gln His
35

<210> 276
<211> 33
<212> PRT
<213> Influenza virus

<220>
<221> MOD_RES
<222> (4)
<223> ser or glu

<220>
<221> MOD_RES
<222> (5)
<223> glu or gln

<220>
<221> MOD_RES
<222> (7)
<223> thr or ser

<220>
<221> MOD_RES
<222> (9)
<223> gln or tyr

<220>
<221> MOD_RES

SEQ.List.txt

<222> (13)
<223> leu or gln

<220>
<221> MOD_RES
<222> (18)
<223> ala or asn

<220>
<221> MOD_RES
<222> (20)
<223> ile or leu

<220>
<221> MOD_RES
<222> (22)
<223> gln or gly

<220>
<221> MOD_RES
<222> (24)
<223> asn or thr

<220>
<221> MOD_RES
<222> (25)
<223> gly or asn

<220>
<221> MOD_RES
<222> (27)
<223> leu or val

<220>
<221> MOD_RES
<222> (29)
<223> arg or ser

<220>
<221> MOD_RES
<222> (32)
<223> glu or cys

<400> 276
His Gln Asn Xaa Xaa Gly Xaa Gly Xaa Ala Ala Asp Xaa Lys Ser Thr
1 5 10 15

Gln Xaa Ala Xaa Asp Xaa Ile Xaa Xaa Lys Xaa Asn Xaa Val Ile Xaa

Lys

<210> 277
 <211> 18
 <212> PRT
 <213> Influenza virus

<220>
 <221> MOD_RES
 <222> (4)
 <223> gly or gln

<220>
 <221> MOD_RES
 <222> (6)
 <223> gln or arg

<220>
 <221> MOD_RES
 <222> (14)
 <223> val or ile

<220>
 <221> MOD_RES
 <222> (17)
 <223> ser or thr

<400> 277
 His Cys Asp Xaa Phe Xaa Asn Glu Lys Trp Asp Leu Phe Xaa Glu Arg
 1 5 10 15

Xaa Lys

<210> 278
 <211> 20
 <212> PRT
 <213> Influenza virus

<400> 278
 His Thr Ile Asp Leu Thr Asp Ser Glu Met Asn Lys Lys Leu Phe Glu
 1 5 10 15

Arg Thr Arg Lys
 20

SEQ.List.txt

<210> 279
 <211> 28
 <212> PRT
 <213> Influenza virus

<400> 279
 Lys Ser Gly Ser Thr Tyr Pro Val Leu Lys Val Thr Met Pro Asn Asn
 1 5 10 15
 Asp Asn Phe Asp Lys Leu Tyr Ile Trp Gly Val His
 20 25

<210> 280
 <211> 34
 <212> PRT
 <213> Influenza virus

<400> 280
 Lys Leu Asn Trp Leu Thr Lys Ser Gly Asn Thr Tyr Pro Val Leu Asn
 1 5 10 15
 Val Thr Met Pro Asn Asn Asp Asn Phe Asp Lys Leu Val Ile Trp Gly
 20 25 30
 Val His

<210> 281
 <211> 19
 <212> PRT
 <213> Influenza virus

<400> 281
 His Thr Ile Asp Leu Thr Asp Ser Glu Met Asn Lys Leu Phe Glu Lys
 1 5 10 15
 Thr Arg Lys

<210> 282
 <211> 18
 <212> PRT
 <213> Influenza virus

<400> 282

SEQ.List.txt

Lys Leu Asn Arg Leu Ile Glu Lys Thr Asn Glu Lys Phe His Gln Thr
 1 5 10 15

Glu Lys

<210> 283

<211> 47

<212> PRT

<213> Influenza virus

<400> 283

His Thr Gly Lys Ser Ser Val Met Arg Ser Asp Ala Pro Ile Asp Phe
 1 5 10 15

Cys Asn Ser Glu Cys Ile Thr Pro Asn Gln Ser Ile Pro Asn Asp Lys
 20 25 30

Pro Phe Gln Asn Val Asn Lys Ile Thr Tyr Gly Ala Cys Pro Lys
 35 40 45

<210> 284

<211> 39

<212> PRT

<213> Influenza virus

<400> 284

His Thr Gly Lys Ser Ser Val Met Arg Ser Asp Ala Pro Ile Asp Phe
 1 5 10 15

Cys Asn Ser Glu Cys Ile Thr Pro Asn Gln Ser Ile Pro Asn Asp Lys
 20 25 30

Pro Phe Gln Asn Val Asn Lys
 35

<210> 285

<211> 33

<212> PRT

<213> Influenza virus

<400> 285

His Pro Ser Thr Asp Ser Asp Gln Thr Ser Leu Tyr Val Arg Ala Ser
 1 5 10 15

Gly Arg Val Thr Val Ser Thr Lys Arg Ser Gln Gln Thr Val Ile Pro

SEQ.List.txt

20

25

30

Lys

<210> 286

<211> 25

<212> PRT

<213> Influenza virus

<400> 286

Lys Tyr Val Glu Asp Thr Lys Ile Asp Leu Trp Ser Tyr Asn Ala Glu
1 5 10 15

Leu Leu Val Ala Leu Glu Asn Gln His
20 25

<210> 287

<211> 26

<212> PRT

<213> Influenza virus

<400> 287

Lys Leu Phe Glu Arg Thr Arg Lys Gln Leu Arg Glu Asn Ala Glu Asp
1 5 10 15

Met Gly Asn Gly Cys Phe Lys Ile Tyr His
20 25

<210> 288

<211> 16

<212> PRT

<213> Influenza virus

<400> 288

Lys Arg Arg Ser Ile Lys Ser Phe Phe Ser Arg Leu Asn Trp Leu His
1 5 10 15

<210> 289

<211> 16

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

SEQ.List.txt

<222> (12)

<223> val or arg

<400> 289

His	Pro	Val	Thr	Ile	Gly	Glu	Cys	Pro	Lys	Tyr	Xaa	Lys	Ser	Thr	Lys
1				5					10					15	

<210> 290

<211> 30

<212> PRT

<213> Influenza virus

<400> 290

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

Ile	Asn	Lys	Lys	Lys	Glu	Val	Leu	Val	Ile	Trp	Gly	Ile	His
		20						25					30

<210> 291

<211> 24

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (9)

<223> val or tyr

<400> 291

Lys	Leu	Ser	Lys	Leu	Ser	Lys	Ser	Xaa	Ile	Ile	Asn	Lys	Lys	Lys	Glu
1				5					10					15	

Val	Leu	Val	Ile	Trp	Gly	Ile	His
			20				

<210> 292

<211> 21

<212> PRT

<213> Influenza virus

<220>

<221> MOD_RES

<222> (6)

<223> val or tyr

SEQ.List.txt

<400> 292

Lys Leu Ser Lys Ser Xaa Ile Ile Asn Lys Lys Lys Glu Val Leu Val
1 5 10 15

Ile Trp Gly Ile His
20

<210> 293

<211> 46

<212> PRT

<213> Plasmodium falciparum

<400> 293

Lys Glu Glu Glu Glu Lys Glu Lys Glu Lys Glu Lys Glu Lys Glu Glu
1 5 10 15

Lys Glu Lys Glu Glu Lys Glu Lys Glu Glu Lys Glu Lys Glu Lys Glu
20 25 30

Glu Lys Glu Lys Glu Lys Glu Glu Lys Glu Glu Glu Lys Lys
35 40 45

<210> 294

<211> 48

<212> PRT

<213> Plasmodium falciparum

<400> 294

Lys Glu Glu Glu Glu Lys Glu Lys Glu Lys Glu Lys Glu Lys Glu Glu
1 5 10 15

Lys Glu Lys Glu Glu Lys Glu Lys Glu Glu Lys Glu Lys Glu Lys Glu
20 25 30

Glu Lys Glu Lys Glu Lys Glu Glu Lys Glu Glu Glu Lys Lys Glu Lys
35 40 45

<210> 295

<211> 47

<212> PRT

<213> Plasmodium falciparum

<400> 295

Lys Glu Glu Glu Glu Lys Glu Lys Glu Lys Glu Lys Glu Lys Glu Glu

SEQ.List.txt

1 5 10 15
 Lys Glu Lys Glu Glu Lys Glu Lys Glu Lys Glu Glu Lys Glu Lys Glu
 20 25 30
 Glu Lys Glu Lys Glu Glu Lys Glu Glu Lys Glu Glu Glu Lys Lys
 35 40 45

<210> 296
 <211> 10
 <212> PRT
 <213> Plasmodium falciparum

<400> 296
 Lys Glu Glu Glu Glu Lys Glu Lys Glu Lys
 1 5 10

<210> 297
 <211> 19
 <212> PRT
 <213> Plasmodium falciparum

<400> 297
 His Lys Lys Leu Ile Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln
 1 5 10 15

Asn Lys Lys

<210> 298
 <211> 19
 <212> PRT
 <213> Plasmodium falciparum

<400> 298
 His Lys Lys Leu Ile Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln
 1 5 10 15

Asn Lys Met

<210> 299
 <211> 10
 <212> PRT
 <213> Plasmodium falciparum

SEQ.List.txt

<400> 299

His Lys Lys Leu Ile Lys Ala Leu Lys Lys
1 5 10

<210> 300

<211> 9

<212> PRT

<213> Plasmodium falciparum

<400> 300

His Lys Lys Leu Ile Lys Ala Leu Lys
1 5

<210> 301

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 301

Lys Ala Thr Tyr Ser Phe Val Asn Thr Lys Lys Lys Ile Ile Ser Leu
1 5 10 15

Lys Ser Gln Gly His Lys Lys
20

<210> 302

<211> 22

<212> PRT

<213> Plasmodium falciparum

<400> 302

Lys Ala Thr Tyr Ser Phe Val Asn Thr Lys Lys Lys Ile Ile Ser Leu
1 5 10 15

Lys Ser Gln Gly His Lys
20

<210> 303

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 303

Lys Ala Thr Tyr Ser Phe Val Asn Thr Lys Lys Lys Ile Ile Ser Leu

SEQ.List.txt

1	5	10	15
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Lys Ser Gln Gly His
20

<210> 304
 <211> 29
 <212> PRT
 <213> Plasmodium falciparum

<400> 304
 His Thr Tyr Val Lys Gly Lys Lys Ala Pro Ser Asp Pro Gln Cys Ala
 1 5 10 15

Asp Ile Lys Glu Glu Cys Lys Glu Leu Leu Lys Glu Lys
 20 25

<210> 305
 <211> 11
 <212> PRT
 <213> Plasmodium falciparum

<400> 305
 Lys Ile Ile Ser Leu Lys Ser Gln Gly His Lys
 1 5 10

<210> 306
 <211> 21
 <212> PRT
 <213> Plasmodium falciparum

<400> 306
 Lys Lys Lys Lys Phe Glu Pro Leu Lys Asn Gly Asn Val Ser Glu Thr
 1 5 10 15

Ile Lys Leu Ile His
 20

<210> 307
 <211> 20
 <212> PRT
 <213> Plasmodium falciparum

<400> 307

SEQ.List.txt

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

Lys Leu Ile His
 20

<210> 308
 <211> 19
 <212> PRT
 <213> Plasmodium falciparum

<400> 308
 Lys Lys Phe Glu Pro Leu Lys Asn Gly Asn Val Ser Glu Thr Ile Lys
 1 5 10 15

Leu Ile His

<210> 309
 <211> 13
 <212> PRT
 <213> Plasmodium falciparum

<400> 309
 Lys Asn Gly Asn Val Ser Glu Thr Ile Lys Leu Ile His
 1 5 10

<210> 310
 <211> 11
 <212> PRT
 <213> Plasmodium falciparum

<400> 310
 Lys Leu Ile His Leu Gly Asn Lys Asp Lys Lys
 1 5 10

<210> 311
 <211> 36
 <212> PRT
 <213> Plasmodium falciparum

<400> 311
 Lys Val Lys Lys Ile Gly Val Thr Leu Lys Lys Phe Glu Pro Leu Lys
 1 5 10 15

SEQ.List.txt

Asn Gly Asn Val Ser Glu Thr Ile Lys Leu Ile His Leu Gly Asn Lys
20 25 30

Asp Lys Lys His
35

<210> 312

<211> 59

<212> PRT

<213> Plasmodium falciparum

<400> 312

His Leu Ile Tyr Lys Asn Lys Ser Tyr Asn Pro Leu Leu Leu Ser Cys
1 5 10 15

Val Lys Lys Met Asn Met Leu Lys Glu Asn Val Asp Tyr Ile Gln Asn
20 25 30

Gln Asn Leu Phe Lys Glu Leu Met Asn Gln Lys Ala Thr Tyr Ser Phe
35 40 45

Val Asn Thr Lys Lys Lys Ile Ile Ser Leu Lys
50 55

<210> 313

<211> 52

<212> PRT

<213> Plasmodium falciparum

<400> 313

His Leu Ile Tyr Lys Asn Lys Ser Tyr Asn Pro Leu Leu Leu Ser Cys
1 5 10 15

Val Lys Lys Met Asn Met Leu Lys Glu Asn Val Asp Tyr Ile Gln Asn
20 25 30

Gln Asn Leu Phe Lys Glu Leu Met Asn Gln Lys Ala Thr Tyr Ser Phe
35 40 45

Val Asn Thr Lys
50

<210> 314

<211> 43

<212> PRT

SEQ.List.txt

<213> Plasmodium falciparum

<400> 314

His Leu Ile Tyr Lys Asn Lys Ser Tyr Asn Pro Leu Leu Leu Ser Cys
1 5 10 15

Val Lys Lys Met Asn Met Leu Lys Glu Asn Val Asp Tyr Ile Gln Asn
20 25 30

Gln Asn Leu Phe Lys Glu Leu Met Asn Gln Lys
35 40

<210> 315

<211> 38

<212> PRT

<213> Plasmodium falciparum

<400> 315

His Leu Ile Tyr Lys Asn Lys Ser Tyr Asn Pro Leu Leu Leu Ser Cys
1 5 10 15

Val Lys Lys Met Asn Met Leu Lys Glu Asn Val Asp Tyr Ile Gln Lys
20 25 30

Asn Gln Asn Leu Phe Lys
35

<210> 316

<211> 24

<212> PRT

<213> Plasmodium falciparum

<400> 316

His Leu Ile Tyr Lys Asn Lys Ser Tyr Asn Pro Leu Leu Leu Ser Cys
1 5 10 15

Val Lys Lys Met Asn Met Leu Lys
20

<210> 317

<211> 47

<212> PRT

<213> Plasmodium falciparum

<400> 317

SEQ.List.txt

Lys Ser Ala Asn Asn Ser Ala Asn Asn Gly Lys Lys Asn Asn Ala Glu
1 5 10 15

Glu Met Lys Asn Leu Val Asn Phe Leu Gln Ser His Lys Lys Leu Ile
20 25 30

Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His
35 40 45

<210> 318

<211> 37

<212> PRT

<213> Plasmodium falciparum

<400> 318

Lys Lys Asn Asn Ala Glu Glu Met Lys Asn Leu Val Asn Phe Leu Gln
1 5 10 15

Ser His Lys Lys Leu Ile Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile
20 25 30

Gln Asn Lys Lys His
35

<210> 319

<211> 29

<212> PRT

<213> Plasmodium falciparum

<400> 319

Lys Asn Leu Val Asn Phe Leu Gln Ser His Lys Lys Leu Ile Lys Ala
1 5 10 15

Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His
20 25

<210> 320

<211> 19

<212> PRT

<213> Plasmodium falciparum

<400> 320

Lys Lys Leu Ile Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn
1 5 10 15

SEQ.List.txt

Lys Lys His

<210> 321

<211> 18

<212> PRT

<213> Plasmodium falciparum

<400> 321

Lys Leu Ile Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys
1 5 10 15

Lys His

<210> 322

<211> 12

<212> PRT

<213> Plasmodium falciparum

<400> 322

Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His
1 5 10

<210> 323

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 323

Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His
1 5 10

<210> 324

<211> 17

<212> PRT

<213> Plasmodium falciparum

<400> 324

Lys Asn Asn Ala Glu Glu Met Lys Asn Leu Val Asn Phe Leu Gln Ser
1 5 10 15

His

<210> 325

SEQ.List.txt

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 325

Lys Lys Leu Ile Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn
1 5 10 15

Lys Lys Gln Gly His Lys Lys
20

<210> 326

<211> 19

<212> PRT

<213> Plasmodium falciparum

<400> 326

Lys Lys Asn Asn Ala Glu Glu Met Lys Asn Leu Val Asn Phe Leu Gln
1 5 10 15

Ser His Lys

<210> 327

<211> 17

<212> PRT

<213> Plasmodium falciparum

<400> 327

Lys Asn Asn Ala Glu Glu Met Lys Asn Leu Val Asn Phe Leu Gln Ser
1 5 10 15

His

<210> 328

<211> 22

<212> PRT

<213> Plasmodium falciparum

<400> 328

Lys Leu Ile Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys
1 5 10 15

Lys Gln Gly His Lys Lys
20

SEQ.List.txt

<210> 329

<211> 28

<212> PRT

<213> Plasmodium falciparum

<400> 329

Lys Val Lys Lys Ile Gly Val Thr Leu Lys Lys Phe Glu Pro Leu Lys
 1 5 10 15

Asn Gly Asn Val Ser Glu Thr Ile Lys Leu Ile His
 20 25

<210> 330

<211> 13

<212> PRT

<213> Plasmodium falciparum

<400> 330

Lys Asn Gly Asn Val Ser Glu Thr Ile Lys Leu Ile His
 1 5 10

<210> 331

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 331

Lys Leu Ile His Leu Gly Asn Lys Asp Lys Lys
 1 5 10

<210> 332

<211> 28

<212> PRT

<213> Plasmodium falciparum

<400> 332

Lys Ser Ala Asn Asn Ser Ala Asn Asn Gly Lys Lys Asn Asn Ala Glu
 1 5 10 15

Glu Met Lys Asn Leu Val Asn Phe Leu Gln Ser His
 20 25

<210> 333

SEQ.List.txt

<211> 18

<212> PRT

<213> Plasmodium falciparum

<400> 333

Lys Lys Asn Asn Ala Glu Glu Met Lys Asn Leu Val Asn Phe Leu Gln
 1 5 10 15

Ser His

<210> 334

<211> 19

<212> PRT

<213> Plasmodium falciparum

<400> 334

Lys Lys Leu Ile Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn
 1 5 10 15

Lys Lys His

<210> 335

<211> 15

<212> PRT

<213> Plasmodium falciparum

<400> 335

Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His
 1 5 10 15

<210> 336

<211> 12

<212> PRT

<213> Plasmodium falciparum

<400> 336

Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His
 1 5 10

<210> 337

<211> 27

<212> PRT

<213> Plasmodium falciparum

SEQ.List.txt

<400> 337

Lys Glu Leu Met Asn Gln Lys Ala Thr Tyr Ser Phe Val Asn Thr Lys
1 5 10 15

Lys Lys Ile Ile Ser Leu Lys Ser Gln Gly His
20 25

<210> 338

<211> 7

<212> PRT

<213> Plasmodium falciparum

<400> 338

Lys Ser Gln Gly His Lys Lys
1 5

<210> 339

<211> 12

<212> PRT

<213> Plasmodium falciparum

<400> 339

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

<210> 340

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 340

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

<210> 341

<211> 12

<212> PRT

<213> Plasmodium falciparum

<400> 341

Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His
1 5 10

SEQ.List.txt

<210> 342

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 342

Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His
1 5 10

<210> 343

<211> 29

<212> PRT

<213> Plasmodium falciparum

<400> 343

His Thr Tyr Val Lys Gly Lys Lys Ala Pro Ser Asp Pro Gln Cys Ala
1 5 10 15

Asp Ile Lys Glu Glu Cys Lys Glu Leu Leu Lys Glu Lys
20 25

<210> 344

<211> 27

<212> PRT

<213> Plasmodium falciparum

<400> 344

His Thr Tyr Val Lys Gly Lys Lys Ala Pro Ser Asp Pro Gln Cys Ala
1 5 10 15

Asp Ile Lys Glu Glu Cys Lys Glu Leu Leu Lys
20 25

<210> 345

<211> 29

<212> PRT

<213> Plasmodium falciparum

<400> 345

His Glu Asn Val Leu Ser Ala Ala Leu Glu Asn Thr Gln Ser Glu Glu
1 5 10 15

Glu Lys Lys Glu Val Ile Asp Val Ile Glu Glu Val Lys
20 25

SEQ.List.txt

<210> 346

<211> 48

<212> PRT

<213> Plasmodium falciparum

<400> 346

Lys Glu Asn Val Val Thr Thr Ile Leu Glu Lys Val Glu Glu Thr Thr
1 5 10 15

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

Asn Thr Ile Thr Asn Asp Thr Ile Glu Glu Lys Leu Glu Glu Leu His
35 40 45

<210> 347

<211> 14

<212> PRT

<213> Plasmodium falciparum

<400> 347

His Tyr Leu Gln Gln Met Lys Glu Lys Phe Ser Lys Glu Lys
1 5 10

<210> 348

<211> 42

<212> PRT

<213> Plasmodium falciparum

<400> 348

His Tyr Leu Gln Gln Met Lys Glu Lys Phe Ser Lys Glu Lys Asn Asn
1 5 10 15

Asn Val Ile Glu Val Thr Asn Lys Ala Glu Lys Lys Gly Asn Val Gln
20 25 30

Val Thr Asn Lys Thr Glu Lys Thr Thr Lys
35 40

<210> 349

<211> 48

<212> PRT

<213> Plasmodium falciparum

SEQ.List.txt

<400> 349

His Tyr Leu Gln Gln Met Lys Glu Lys Phe Ser Lys Glu Lys Asn Asn
1 5 10 15

Asn Val Ile Glu Val Thr Asn Lys Ala Glu Lys Lys Gly Asn Val Gln
20 25 30

Val Thr Asn Lys Thr Glu Lys Thr Thr Lys Val Asp Lys Asn Asn Lys
35 40 45

<210> 350

<211> 57

<212> PRT

<213> Plasmodium falciparum

<400> 350

His Tyr Leu Gln Gln Met Lys Glu Lys Phe Ser Lys Glu Lys Asn Asn
1 5 10 15

Asn Val Ile Glu Val Thr Asn Lys Ala Glu Lys Lys Gly Asn Val Gln
20 25 30

Val Thr Asn Lys Thr Glu Lys Thr Thr Lys Val Asp Lys Asn Asn Lys
35 40 45

Val Pro Lys Lys Arg Arg Thr Gln Lys
50 55

<210> 351

<211> 59

<212> PRT

<213> Plasmodium falciparum

<400> 351

His Tyr Leu Gln Gln Met Lys Glu Lys Phe Ser Lys Glu Lys Asn Asn
1 5 10 15

Asn Val Ile Glu Val Thr Asn Lys Ala Glu Lys Lys Gly Asn Val Gln
20 25 30

Val Thr Asn Lys Thr Glu Lys Thr Thr Lys Val Asp Lys Asn Asn Lys
35 40 45

Val Pro Lys Lys Arg Arg Thr Gln Lys Ser Lys
50 55

SEQ.List.txt

<210> 352

<211> 52

<212> PRT

<213> Plasmodium falciparum

<400> 352

His Val Asp Glu Val Met Lys Tyr Val Gln Lys Ile Asp Lys Glu Val
1 5 10 15

Asp Lys Glu Val Ser Lys Ala Leu Glu Ser Lys Asn Asp Val Thr Asn
20 25 30

Val Leu Lys Gln Asn Gln Asp Phe Phe Ser Lys Val Lys Asn Phe Val
35 40 45

Lys Lys Tyr Lys
50

<210> 353

<211> 50

<212> PRT

<213> Plasmodium falciparum

<400> 353

His Val Asp Glu Val Met Lys Tyr Val Gln Lys Ile Asp Lys Glu Val
1 5 10 15

Asp Lys Glu Val Ser Lys Ala Leu Glu Ser Lys Asn Asp Val Thr Asn
20 25 30

Val Leu Lys Gln Asn Gln Asp Phe Phe Ser Lys Val Lys Asn Phe Val
35 40 45

Lys Lys
50

<210> 354

<211> 43

<212> PRT

<213> Plasmodium falciparum

<400> 354

His Val Asp Glu Val Met Lys Tyr Val Gln Lys Ile Asp Lys Glu Val
1 5 10 15

SEQ.List.txt

Asp Lys Glu Val Ser Lys Ala Leu Glu Ser Lys Asn Asp Val Thr Asn
20 25 30

Val Leu Lys Gln Asn Gln Asp Phe Phe Ser Lys
35 40

<210> 355

<211> 35

<212> PRT

<213> Plasmodium falciparum

<400> 355

His Val Asp Glu Val Met Lys Tyr Val Gln Lys Ile Asp Lys Glu Val
1 5 10 15

Asp Lys Glu Val Ser Lys Ala Leu Glu Ser Lys Asn Asp Val Thr Asn
20 25 30

Val Leu Lys
35

<210> 356

<211> 27

<212> PRT

<213> Plasmodium falciparum

<400> 356

His Val Asp Glu Val Met Lys Tyr Val Gln Lys Ile Asp Lys Glu Val
1 5 10 15

Asp Lys Glu Val Ser Lys Ala Leu Glu Ser Lys
20 25

<210> 357

<211> 22

<212> PRT

<213> Plasmodium falciparum

<400> 357

His Val Asp Glu Val Met Lys Tyr Val Gln Lys Ile Asp Lys Glu Val
1 5 10 15

Asp Lys Glu Val Ser Lys
20

SEQ.List.txt

<210> 358

<211> 18

<212> PRT

<213> Plasmodium falciparum

<400> 358

His Val Asp Glu Val Met Lys Tyr Val Gln Lys Ile Asp Lys Glu Val
1 5 10 15

Asp Lys

<210> 359

<211> 14

<212> PRT

<213> Plasmodium falciparum

<400> 359

His Val Asp Glu Val Met Lys Tyr Val Gln Lys Ile Asp Lys
1 5 10

<210> 360

<211> 39

<212> PRT

<213> Plasmodium falciparum

<400> 360

Lys Asp Glu Val Ile Asp Leu Ile Val Gln Lys Glu Lys Arg Ile Glu
1 5 10 15

Lys Val Lys Ala Lys Lys Lys Lys Leu Glu Lys Lys Val Glu Glu Gly
20 25 30

Val Ser Gly Leu Lys Lys His
35

<210> 361

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 361

Lys Val Lys Ala Lys Lys Lys Lys Leu Glu Lys Lys Val Glu Glu Gly
1 5 10 15

SEQ.List.txt

Val Ser Gly Leu Lys Lys His
20

<210> 362
<211> 21
<212> PRT
<213> Plasmodium falciparum

<400> 362
Lys Ala Lys Lys Lys Lys Leu Glu Lys Lys Val Glu Glu Gly Val Ser
1 5 10 15

Gly Leu Lys Lys His
20

<210> 363
<211> 19
<212> PRT
<213> Plasmodium falciparum

<400> 363
Lys Lys Lys Lys Leu Glu Lys Lys Val Glu Glu Gly Val Ser Gly Leu
1 5 10 15

Lys Lys His

<210> 364
<211> 18
<212> PRT
<213> Plasmodium falciparum

<400> 364
Lys Lys Lys Leu Glu Lys Lys Val Glu Glu Gly Val Ser Gly Leu Lys
1 5 10 15

Lys His

<210> 365
<211> 17
<212> PRT
<213> Plasmodium falciparum

<400> 365
Lys Lys Leu Glu Lys Lys Val Glu Glu Gly Val Ser Gly Leu Lys Lys

SEQ.List.txt

1 5 10 15
His

<210> 366
<211> 16
<212> PRT
<213> Plasmodium falciparum

<400> 366
Lys Leu Glu Lys Lys Val Glu Glu Gly Val Ser Gly Leu Lys Lys His
1 5 10 15

<210> 367
<211> 13
<212> PRT
<213> Plasmodium falciparum

<400> 367
Lys Lys Val Glu Glu Gly Val Ser Gly Leu Lys Lys His
1 5 10

<210> 368
<211> 12
<212> PRT
<213> Plasmodium falciparum

<400> 368
Lys Val Glu Glu Gly Val Ser Gly Leu Lys Lys His
1 5 10

<210> 369
<211> 59
<212> PRT
<213> Plasmodium falciparum

<400> 369
His Val Glu Gln Asn Val Tyr Val Asp Val Asp Val Pro Ala Met Lys
1 5 10 15

Asp Gln Phe Leu Gly Ile Leu Asn Glu Ala Gly Gly Leu Lys Glu Met
20 25 30

Phe Phe Asn Leu Glu Asp Val Phe Lys Ser Glu Ser Asp Val Ile Thr

SEQ.List.txt

35

40

45

Val Glu Glu Ile Lys Asp Glu Pro Val Gln Lys
50 55

<210> 370

<211> 53

<212> PRT

<213> Plasmodium falciparum

<400> 370

His Ile Lys Gly Leu Glu Glu Asp Asp Leu Glu Glu Val Asp Asp Leu
1 5 10 15

Lys Gly Ser Ile Leu Asp Met Leu Lys Gly Asp Met Glu Leu Gly Asp
20 25 30

Met Asp Lys Glu Ser Leu Glu Asp Val Thr Thr Lys Leu Gly Glu Arg
35 40 45

Val Glu Ser Leu Lys
50

<210> 371

<211> 44

<212> PRT

<213> Plasmodium falciparum

<400> 371

His Ile Lys Gly Leu Glu Glu Asp Asp Leu Glu Glu Val Asp Asp Leu
1 5 10 15

Lys Gly Ser Ile Leu Asp Met Leu Lys Gly Asp Met Glu Leu Gly Asp
20 25 30

Met Asp Lys Glu Ser Leu Glu Asp Val Thr Thr Lys
35 40

<210> 372

<211> 35

<212> PRT

<213> Plasmodium falciparum

<400> 372

His Ile Lys Gly Leu Glu Glu Asp Asp Leu Glu Glu Val Asp Asp Leu

SEQ.List.txt

1 5 10 15
 Lys Gly Ser Ile Leu Asp Met Leu Lys Gly Asp Met Glu Leu Gly Asp
 20 25 30

Met Asp Lys
 35

<210> 373
 <211> 25
 <212> PRT
 <213> Plasmodium falciparum

<400> 373
 His Ile Lys Gly Leu Glu Glu Asp Asp Leu Glu Glu Val Asp Asp Leu
 1 5 10 15

Lys Gly Ser Ile Leu Asp Met Leu Lys
 20 25

<210> 374
 <211> 31
 <212> PRT
 <213> Plasmodium falciparum

<400> 374
 His Ile Ile Ser Gly Asp Ala Asp Val Leu Ser Ser Ala Leu Gly Met
 1 5 10 15

Asp Glu Glu Gln Met Lys Thr Arg Lys Lys Ala Gln Arg Pro Lys
 20 25 30

<210> 375
 <211> 23
 <212> PRT
 <213> Plasmodium falciparum

<400> 375
 His Asp Ile Thr Thr Thr Leu Asp Glu Val Val Glu Leu Lys Asp Val
 1 5 10 15

Glu Glu Asp Lys Ile Glu Lys
 20

SEQ.List.txt

<210> 376
 <211> 10
 <212> PRT
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<400> 376
 Lys Lys Leu Glu Glu Val His Glu Leu Lys
 1 5 10

<210> 377
 <211> 9
 <212> PRT
 <213> Plasmodium falciparum

<400> 377
 Lys Leu Glu Glu Val His Glu Leu Lys
 1 5

<210> 378
 <211> 19
 <212> PRT
 <213> Plasmodium falciparum

<400> 378
 Lys Thr Ile Glu Thr Asp Ile Leu Glu Glu Lys Lys Lys Glu Ile Glu
 1 5 10 15

Lys Asp His

<210> 379
 <211> 11
 <212> PRT
 <213> Plasmodium falciparum

<400> 379
 Lys Lys Glu Ile Glu Lys Asp His Phe Glu Lys
 1 5 10

<210> 380
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<400> 380

SEQ.List.txt

Lys Asp His Phe Glu Lys
1 5

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<400> 381
Lys Phe Glu Glu Glu Ala Glu Glu Ile Lys His
1 5 10

<210> 382
<211> 47
<212> PRT
<213> Plasmodium falciparum

<400> 382
Lys Asp Gly Asp Thr Lys Cys Thr Leu Glu Cys Ala Gln Gly Lys Lys
1 5 10 15

Cys Ile Lys His Lys Ser Asp His Asn His Lys Ser Asp His Asn His
20 25 30

Lys Ser Asp Pro Asn His Lys Lys Lys Asn Asn Asn Asn Lys
35 40 45

<210> 383
<211> 40
<212> PRT
<213> Plasmodium falciparum

<400> 383
Lys Asp Gly Asp Thr Lys Cys Thr Leu Glu Cys Ala Gln Gly Lys Lys
1 5 10 15

Cys Ile Lys His Lys Ser Asp His Asn His Lys Ser Asp His Asn His
20 25 30

Lys Ser Asp Pro Asn His Lys Lys
35 40

<210> 384
<211> 39

SEQ.List.txt

<212> PRT

<213> Plasmodium falciparum

<400> 384

Lys Asp Gly Asp Thr Lys Cys Thr Leu Glu Cys Ala Gln Gly Lys Lys
1 5 10 15

Cys Ile Lys His Lys Ser Asp His Asn His Lys Ser Asp His Asn His
20 25 30

Lys Ser Asp Pro Asn His Lys
35

<210> 385

<211> 33

<212> PRT

<213> Plasmodium falciparum

<400> 385

Lys Asp Gly Asp Thr Lys Cys Thr Leu Glu Cys Ala Gln Gly Lys Lys
1 5 10 15

Cys Ile Lys His Lys Ser Asp His Asn His Lys Ser Asp His Asn His
20 25 30

Lys

<210> 386

<211> 27

<212> PRT

<213> Plasmodium falciparum

<400> 386

Lys Asp Gly Asp Thr Lys Cys Thr Leu Glu Cys Ala Gln Gly Lys Lys
1 5 10 15

Cys Ile Lys His Lys Ser Asp His Asn His Lys
20 25

<210> 387

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 387

SEQ.List.txt

Lys Asp Gly Asp Thr Lys Cys Thr Leu Glu Cys Ala Gln Gly Lys Lys
 1 5 10 15

Cys Ile Lys His Lys
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<211> 16

<212> PRT

<213> Plasmodium falciparum

<400> 388

Lys Asp Gly Asp Thr Lys Cys Thr Leu Glu Cys Ala Gln Gly Lys Lys
 1 5 10 15

<210> 389

<211> 15

<212> PRT

<213> Plasmodium falciparum

<400> 389

Lys Asp Gly Asp Thr Lys Cys Thr Leu Glu Cys Ala Gln Gly Lys
 1 5 10 15

<210> 390

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 390

Lys Cys Ile Gln Ala Glu Cys Asn Tyr Lys Glu Cys Gly Glu Gln Lys
 1 5 10 15

Cys Val Trp Asp Gly Ile His
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<210> 391

<211> 14

<212> PRT

<213> Plasmodium falciparum

<400> 391

Lys Glu Cys Gly Glu Gln Lys Cys Val Trp Asp Gly Ile His
 1 5 10

SEQ.List.txt

<210> 392
 <211> 32
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<400> 392
 His Ile Glu Cys Lys Cys Asn Asn Asp Tyr Val Leu Thr Asn Arg Tyr
 1 5 10 15
 Glu Cys Glu Pro Lys Asn Lys Cys Thr Ser Leu Glu Asp Thr Asn Lys
 20 25 30

<210> 393
 <211> 39
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<400> 393
 Lys Ser Asp His Asn His Lys Ser Asp His Asn His Lys Ser Asp His
 1 5 10 15
 Asn His Lys Ser Asp His Asn His Lys Ser Asp Pro Asn His Lys Lys
 20 25 30
 Lys Asn Asn Asn Asn Asn Lys
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<210> 394
 <211> 33
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<400> 394
 Lys Ser Asp His Asn His Lys Ser Asp His Asn His Lys Ser Asp His
 1 5 10 15
 Asn His Lys Ser Asp Pro Asn His Lys Lys Lys Asn Asn Asn Asn Asn
 20 25 30
 Lys

<210> 395
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SEQ.List.txt

<212> PRT

<213> Plasmodium falciparum

<400> 395

Lys Ser Asp His Asn His Lys Ser Asp His Asn His Lys Ser Asp Pro
1 5 10 15

Asn His Lys Lys Lys Asn Asn Asn Asn Asn Lys
20 25

<210> 396

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 396

Lys Ser Asp His Asn His Lys Ser Asp Pro Asn His Lys Lys Lys Asn
1 5 10 15

Asn Asn Asn Asn Lys
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<210> 397

<211> 18

<212> PRT

<213> Plasmodium falciparum

<400> 397

Lys Lys Lys Asn Asn Asn Asn Asn Lys Asp Asn Lys Ser Asp Pro Asn
1 5 10 15

His Lys

<210> 398

<211> 17

<212> PRT

<213> Plasmodium falciparum

<400> 398

Lys Lys Asn Asn Asn Asn Asn Lys Asp Asn Lys Ser Asp Pro Asn His
1 5 10 15

Lys

SEQ.List.txt

<210> 399

<211> 16

<212> PRT

<213> Plasmodium falciparum

<400> 399

Lys Asn Asn Asn Asn Asn Lys Asp Asn Lys Ser Asp Pro Asn His Lys
1 5 10 15

<210> 400

<211> 10

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<400> 400

Lys Asp Asn Lys Ser Asp Pro Asn His Lys
1 5 10

<210> 401

<211> 7

<212> PRT

<213> Plasmodium falciparum

<400> 401

Lys Ser Asp Pro Asn His Lys
1 5

<210> 402

<211> 35

<212> PRT

<213> Plasmodium falciparum

<400> 402

His Ser Leu Tyr Ala Leu Gln Gln Asn Glu Glu Tyr Gln Lys Val Lys
1 5 10 15

Asn Glu Lys Asp Gln Asn Glu Ile Lys Lys Ile Lys Gln Leu Ile Glu
20 25 30

Lys Asn Lys
35

<210> 403

<211> 28

SEQ.List.txt

<212> PRT

<213> Plasmodium falciparum

<400> 403

His Ser Leu Tyr Ala Leu Gln Gln Asn Glu Glu Tyr Gln Lys Val Lys
1 5 10 15

Asn Glu Lys Asp Gln Asn Glu Ile Lys Lys Ile Lys
20 25

<210> 404

<211> 26

<212> PRT

<213> Plasmodium falciparum

<400> 404

His Ser Leu Tyr Ala Leu Gln Gln Asn Glu Glu Tyr Gln Lys Val Lys
1 5 10 15

Asn Glu Lys Asp Gln Asn Glu Ile Lys Lys
20 25

<210> 405

<211> 25

<212> PRT

<213> Plasmodium falciparum

<400> 405

His Ser Leu Tyr Ala Leu Gln Gln Asn Glu Glu Tyr Gln Lys Val Lys
1 5 10 15

Asn Glu Lys Asp Gln Asn Glu Ile Lys
20 25

<210> 406

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 406

His Lys Leu Glu Asn Leu Glu Glu Met Asp Lys
1 5 10

<210> 407

SEQ.List.txt

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 407

Lys His Phe Asp Asp Asn Thr Asn Glu Gln Lys
1 5 10

<210> 408

<211> 8

<212> PRT

<213> Plasmodium falciparum

<400> 408

Lys Lys Glu Asp Asp Glu Lys His
1 5

<210> 409

<211> 13

<212> PRT

<213> Plasmodium falciparum

<400> 409

Lys Glu Glu Asn Asn Lys Lys Glu Asp Asp Glu Lys His
1 5 10

<210> 410

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 410

Lys Thr Ser Ser Gly Ile Leu Asn Lys Glu Glu Asn Asn Lys Lys Glu
1 5 10 15

Asp Asp Glu Lys His
20

<210> 411

<211> 7

<212> PRT

<213> Plasmodium falciparum

<400> 411

SEQ.List.txt

Lys Asn Ile His Ile Lys Lys
1 5

<210> 412
<211> 13
<212> PRT
<213> Plasmodium falciparum

<400> 412
His Ile Lys Lys Lys Glu Gly Ile Asp Ile Gly Tyr Lys
1 5 10

<210> 413
<211> 21
<212> PRT
<213> Plasmodium falciparum

<400> 413
Lys Lys Met Trp Thr Cys Lys Leu Trp Asp Asn Lys Gly Asn Glu Ile
1 5 10 15

Thr Lys Asn Ile His
20

<210> 414
<211> 30
<212> PRT
<213> Plasmodium falciparum

<400> 414
Lys Lys Gly Ile Gln Trp Asn Leu Leu Lys Lys Met Trp Thr Cys Lys
1 5 10 15

Leu Trp Asp Asn Lys Gly Asn Glu Ile Thr Lys Asn Ile His
20 25 30

<210> 415
<211> 50
<212> PRT
<213> Plasmodium falciparum

<400> 415
Lys Glu Lys Lys Asp Ser Asn Glu Asn Arg Lys Lys Lys Gln Lys Glu
1 5 10 15

SEQ.List.txt

Asp Lys Lys Asn Pro Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn Lys
20 25 30

Ile Thr His Phe Phe Lys Ala Lys Asn Asn Lys Gln Gln Asn Asn Val
35 40 45

Thr His
50

<210> 416

<211> 48

<212> PRT

<213> Plasmodium falciparum

<400> 416

Lys Lys Asp Ser Asn Glu Asn Arg Lys Lys Lys Gln Lys Glu Asp Lys
1 5 10 15

Lys Asn Pro Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn Lys Ile Thr
20 25 30

His Phe Phe Lys Ala Lys Asn Asn Lys Gln Gln Asn Asn Val Thr His
35 40 45

<210> 417

<211> 47

<212> PRT

<213> Plasmodium falciparum

<400> 417

Lys Asp Ser Asn Glu Asn Arg Lys Lys Lys Gln Lys Glu Asp Lys Lys
1 5 10 15

Asn Pro Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn Lys Ile Thr His
20 25 30

Phe Phe Lys Ala Lys Asn Asn Lys Gln Gln Asn Asn Val Thr His
35 40 45

<210> 418

<211> 39

<212> PRT

<213> Plasmodium falciparum

SEQ.List.txt

<400> 418

Lys Lys Gln Lys Glu Asp Lys Lys Asn Pro Asn Lys Leu Lys Lys Ile
1 5 10 15

Glu Tyr Thr Asn Lys Ile Thr His Phe Phe Lys Ala Lys Asn Asn Lys
20 25 30

Gln Gln Asn Asn Val Thr His
35

<210> 419

<211> 38

<212> PRT

<213> Plasmodium falciparum

<400> 419

Lys Gln Lys Glu Asp Lys Lys Asn Pro Asn Lys Leu Lys Lys Ile Glu
1 5 10 15

Tyr Thr Asn Lys Ile Thr His Phe Phe Lys Ala Lys Asn Asn Lys Gln
20 25 30

Gln Asn Asn Val Thr His
35

<210> 420

<211> 36

<212> PRT

<213> Plasmodium falciparum

<400> 420

Lys Glu Asp Lys Lys Asn Pro Asn Lys Leu Lys Lys Ile Glu Tyr Thr
1 5 10 15

Asn Lys Ile Thr His Phe Phe Lys Ala Lys Asn Asn Lys Gln Gln Asn
20 25 30

Asn Val Thr His
35

<210> 421

<211> 32

<212> PRT

<213> Plasmodium falciparum

SEQ.List.txt

<400> 421

Lys Asn Pro Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn Lys Ile Thr
1 5 10 15

His Phe Phe Lys Ala Lys Asn Asn Lys Gln Gln Asn Asn Val Thr His
20 25 30

<210> 422

<211> 26

<212> PRT

<213> Plasmodium falciparum

<400> 422

Lys Lys Ile Glu Tyr Thr Asn Lys Ile Thr His Phe Phe Lys Ala Lys
1 5 10 15

Asn Asn Lys Gln Gln Asn Asn Val Thr His
20 25

<210> 423

<211> 25

<212> PRT

<213> Plasmodium falciparum

<400> 423

Lys Ile Glu Tyr Thr Asn Lys Ile Thr His Phe Phe Lys Ala Lys Asn
1 5 10 15

Asn Lys Gln Gln Asn Asn Val Thr His
20 25

<210> 424

<211> 19

<212> PRT

<213> Plasmodium falciparum

<400> 424

Lys Ile Thr His Phe Phe Lys Ala Lys Asn Asn Lys Gln Gln Asn Asn
1 5 10 15

Val Thr His

<210> 425

<211> 48

SEQ.List.txt

<212> PRT

<213> Plasmodium falciparum

<400> 425

His Lys Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
1 5 10 15

Asn Asp Asn Ser Lys Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
20 25 30

Asn Asp Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
35 40 45

<210> 426

<211> 45

<212> PRT

<213> Plasmodium falciparum

<400> 426

His Lys Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
1 5 10 15

Asn Asp Asn Ser Lys Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
20 25 30

Asn Asp Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys
35 40 45

<210> 427

<211> 40

<212> PRT

<213> Plasmodium falciparum

<400> 427

His Lys Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
1 5 10 15

Asn Asp Asn Ser Lys Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
20 25 30

Asn Asp Asn Asn Glu Asp Ile Lys
35 40

<210> 428

<211> 32

SEQ.List.txt

<212> PRT

<213> Plasmodium falciparum

<400> 428

His Lys Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
1 5 10 15

Asn Asp Asn Ser Lys Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
20 25 30

<210> 429

<211> 29

<212> PRT

<213> Plasmodium falciparum

<400> 429

His Lys Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
1 5 10 15

Asn Asp Asn Ser Lys Asp Ile Lys Asn Asp Asn Ser Lys
20 25

<210> 430

<211> 24

<212> PRT

<213> Plasmodium falciparum

<400> 430

His Lys Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
1 5 10 15

Asn Asp Asn Ser Lys Asp Ile Lys
20

<210> 431

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 431

His Lys Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
1 5 10 15

Asn Asp Asn Ser Lys
20

SEQ.List.txt

<210> 432
 <211> 16
 <212> PRT
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<400> 432
 His Lys Asn Asn Glu Asp Ile Lys Asn Asp Asn Ser Lys Asp Ile Lys
 1 5 10 15

<210> 433
 <211> 8
 <212> PRT
 <213> Plasmodium falciparum

<400> 433
 His Lys Asn Asn Glu Asp Ile Lys
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<210> 434
 <211> 31
 <212> PRT
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<400> 434
 Lys Lys Tyr Asp Asp Leu Gln Asn Lys Tyr Asn Ile Leu Asn Lys Leu
 1 5 10 15
 Lys Asn Ser Leu Glu Glu Lys Asn Glu Glu Leu Lys Lys Tyr His
 20 25 30

<210> 435
 <211> 30
 <212> PRT
 <213> Plasmodium falciparum

<400> 435
 Lys Tyr Asp Asp Leu Gln Asn Lys Tyr Asn Ile Leu Asn Lys Leu Lys
 1 5 10 15
 Asn Ser Leu Glu Glu Lys Asn Glu Glu Leu Lys Lys Tyr His
 20 25 30

SEQ.List.txt

<210> 436

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 436

Lys Tyr Asn Ile Leu Asn Lys Leu Lys Asn Ser Leu Glu Glu Lys Asn
 1 5 10 15

Glu Glu Leu Lys Lys Tyr His
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<210> 437

<211> 17

<212> PRT

<213> Plasmodium falciparum

<400> 437

Lys Leu Lys Asn Ser Leu Glu Glu Lys Asn Glu Glu Leu Lys Lys Tyr
 1 5 10 15

His

<210> 438

<211> 15

<212> PRT

<213> Plasmodium falciparum

<400> 438

Lys Asn Ser Leu Glu Glu Lys Asn Glu Glu Leu Lys Lys Tyr His
 1 5 10 15

<210> 439

<211> 9

<212> PRT

<213> Plasmodium falciparum

<400> 439

Lys Asn Glu Glu Leu Lys Lys Tyr His
 1 5

<210> 440

<211> 35

<212> PRT

SEQ.List.txt

<213> Plasmodium falciparum

<400> 440

His Met Gly Asn Asn Gln Asp Ile Asn Glu Asn Val Tyr Asn Ile Lys
 1 5 10 15
 Pro Gln Glu Phe Lys Glu Glu Glu Glu Glu Asp Ile Ser Met Val Asn
 20 25 30
 Thr Lys Lys
 35

<210> 441

<211> 17

<212> PRT

<213> Plasmodium falciparum

<400> 441

Lys Asn Ser Asn Glu Leu Lys Arg Ile Asn Asp Asn Phe Phe Lys Leu
 1 5 10 15

His

<210> 442

<211> 55

<212> PRT

<213> Plasmodium falciparum

<400> 442

Lys Pro Cys Leu Tyr Lys Lys Cys Lys Ile Ser Gln Cys Leu Tyr Lys
 1 5 10 15

Lys Cys Lys Ile Ser Gln Val Trp Trp Cys Met Pro Val Lys Asp Thr
 20 25 30

Phe Asn Thr Tyr Glu Arg Asn Asn Val Leu Asn Ser Lys Ile Glu Asn
 35 40 45

Asn Ile Glu Lys Ile Pro His
 50 55

<210> 443

<211> 40

<212> PRT

<213> Plasmodium falciparum

SEQ.List.txt

<400> 443

His Ile Asn Asn Glu Tyr Thr Asn Lys Asn Pro Lys Asn Cys Leu Leu
1 5 10 15

Tyr Lys Asn Glu Glu Arg Asn Tyr Asn Asp Asn Asn Ile Lys Asp Tyr
20 25 30

Ile Asn Ser Met Asn Phe Lys Lys
35 40

<210> 444

<211> 39

<212> PRT

<213> Plasmodium falciparum

<400> 444

His Ile Asn Asn Glu Tyr Thr Asn Lys Asn Pro Lys Asn Cys Leu Leu
1 5 10 15

Tyr Lys Asn Glu Glu Arg Asn Tyr Asn Asp Asn Asn Ile Lys Asp Tyr
20 25 30

Ile Asn Ser Met Asn Phe Lys
35

<210> 445

<211> 18

<212> PRT

<213> Plasmodium falciparum

<400> 445

His Ile Asn Asn Glu Tyr Thr Asn Lys Asn Pro Lys Asn Cys Leu Leu
1 5 10 15

Tyr Lys

<210> 446

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 446

Lys Asn Lys Thr Asn Gln Ser Lys Gly Val Lys Gly Glu Tyr Glu Lys
1 5 10 15

SEQ.List.txt

Lys Lys Glu Thr Asn Gly His
20

<210> 447

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 447

Lys Thr Asn Gln Ser Lys Gly Val Lys Gly Glu Tyr Glu Lys Lys Lys
1 5 10 15

Glu Thr Asn Gly His
20

<210> 448

<211> 16

<212> PRT

<213> Plasmodium falciparum

<400> 448

Lys Gly Val Lys Gly Glu Tyr Glu Lys Lys Lys Glu Thr Asn Gly His
1 5 10 15

<210> 449

<211> 13

<212> PRT

<213> Plasmodium falciparum

<400> 449

Lys Gly Glu Tyr Glu Lys Lys Lys Glu Thr Asn Gly His
1 5 10

<210> 450

<211> 28

<212> PRT

<213> Plasmodium falciparum

<400> 450

Lys Ser Gly Met Tyr Thr Asn Glu Gly Asn Lys Ser Cys Glu Cys Ser
1 5 10 15

Tyr Lys Lys Lys Ser Ser Ser Ser Asn Lys Val His

<210> 451
<211> 18
<212> PRT
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<400> 451
Lys Ser Cys Glu Cys Ser Tyr Lys Lys Lys Ser Ser Ser Ser Asn Lys
1 5 10 15

Val His

<210> 452
<211> 11
<212> PRT
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<400> 452
Lys Lys Lys Ser Ser Ser Ser Asn Lys Val His
1 5 10

<210> 453
<211> 10
<212> PRT
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<400> 453
Lys Lys Ser Ser Ser Ser Asn Lys Val His
1 5 10

<210> 454
<211> 9
<212> PRT
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<400> 454
Lys Ser Ser Ser Ser Asn Lys Val His
1 5

<210> 455
<211> 30
<212> PRT

SEQ.List.txt

<213> Plasmodium falciparum

<400> 455

His Ile Met Leu Lys Ser Gly Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys Lys Lys Ser Ser Ser Ser Asn Lys
20 25 30

<210> 456

<211> 24

<212> PRT

<213> Plasmodium falciparum

<400> 456

His Ile Met Leu Lys Ser Gly Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys Lys Lys
20

<210> 457

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 457

His Ile Met Leu Lys Ser Gly Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys Lys
20

<210> 458

<211> 22

<212> PRT

<213> Plasmodium falciparum

<400> 458

His Ile Met Leu Lys Ser Gly Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys
20

SEQ.List.txt

<210> 459

<211> 50

<212> PRT

<213> Plasmodium falciparum

<400> 459

Lys Pro Leu Ala Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys
1 5 10 15

Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln
20 25 30

Lys Ile Ile Ile Arg Asp Tyr His Glu Thr Leu Asn Val His Lys Leu
35 40 45

Asp His
50

<210> 460

<211> 43

<212> PRT

<213> Plasmodium falciparum

<400> 460

Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp
1 5 10 15

Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Ile Arg Asp Tyr
20 25 30

His Glu Thr Leu Asn Val His Lys Leu Asp His
35 40

<210> 461

<211> 40

<212> PRT

<213> Plasmodium falciparum

<400> 461

Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile
1 5 10 15

Asp Asn Thr Glu Ile Gln Lys Ile Ile Ile Arg Asp Tyr His Glu Thr
20 25 30

SEQ.List.txt

Leu Asn Val His Lys Leu Asp His
35 40

<210> 462

<211> 46

<212> PRT

<213> Plasmodium falciparum

<400> 462

Lys Pro Leu Ala Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys
1 5 10 15

Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln
20 25 30

Lys Ile Ile Ile Arg Asp Tyr His Glu Thr Leu Asn Val His
35 40 45

<210> 463

<211> 40

<212> PRT

<213> Plasmodium falciparum

<400> 463

Lys Pro Leu Ala Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys
1 5 10 15

Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln
20 25 30

Lys Ile Ile Ile Arg Asp Tyr His
35 40

<210> 464

<211> 36

<212> PRT

<213> Plasmodium falciparum

<400> 464

Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu
1 5 10 15

Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Ile
20 25 30

SEQ.List.txt

Arg Asp Tyr His
35

<210> 465
<211> 33
<212> PRT
<213> Plasmodium falciparum

<400> 465
Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp
1 5 10 15
Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Ile Arg Asp Tyr
20 25 30

His

<210> 466
<211> 30
<212> PRT
<213> Plasmodium falciparum

<400> 466
Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile
1 5 10 15
Asp Asn Thr Glu Ile Gln Lys Ile Ile Ile Arg Asp Tyr His
20 25 30

<210> 467
<211> 41
<212> PRT
<213> Plasmodium falciparum

<400> 467
Lys Lys Asp Lys Glu Lys Lys Lys Asp Ser Asn Glu Asn Arg Lys Lys
1 5 10 15
Lys Gln Lys Glu Asp Lys Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys
20 25 30
Ile Glu Tyr Thr Asn Lys Ile Thr His
35 40

SEQ.List.txt

<210> 468

<211> 40

<212> PRT

<213> Plasmodium falciparum

<400> 468

Lys Asp Lys Glu Lys Lys Lys Asp Ser Asn Glu Asn Arg Lys Lys Lys
1 5 10 15

Gln Lys Glu Asp Lys Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys Ile
20 25 30

Glu Tyr Thr Asn Lys Ile Thr His
35 40

<210> 469

<211> 38

<212> PRT

<213> Plasmodium falciparum

<400> 469

Lys Glu Lys Lys Lys Asp Ser Asn Glu Asn Arg Lys Lys Lys Gln Lys
1 5 10 15

Glu Asp Lys Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys Ile Glu Tyr
20 25 30

Thr Asn Lys Ile Thr His
35

<210> 470

<211> 36

<212> PRT

<213> Plasmodium falciparum

<400> 470

Lys Lys Lys Asp Ser Asn Glu Asn Arg Lys Lys Lys Gln Lys Glu Asp
1 5 10 15

Lys Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn
20 25 30

Lys Ile Thr His
35

SEQ.List.txt

<210> 471
 <211> 35
 <212> PRT
 <213> Plasmodium falciparum

<400> 471
 Lys Lys Asp Ser Asn Glu Asn Arg Lys Lys Lys Gln Lys Glu Asp Lys
 1 5 10 15

Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn Lys
 20 25 30

Ile Thr His
 35

<210> 472
 <211> 34
 <212> PRT
 <213> Plasmodium falciparum

<400> 472
 Lys Asp Ser Asn Glu Asn Arg Lys Lys Lys Gln Lys Glu Asp Lys Lys
 1 5 10 15

Asn Pro Asn Asp Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn Lys Ile
 20 25 30

Thr His

<210> 473
 <211> 27
 <212> PRT
 <213> Plasmodium falciparum

<400> 473
 Lys Lys Lys Gln Lys Glu Asp Lys Lys Asn Pro Asn Asp Asn Lys Leu
 1 5 10 15

Lys Lys Ile Glu Tyr Thr Asn Lys Ile Thr His
 20 25

<210> 474
 <211> 26
 <212> PRT
 <213> Plasmodium falciparum

SEQ.List.txt

<400> 474

Lys Lys Gln Lys Glu Asp Lys Lys Asn Pro Asn Asp Asn Lys Leu Lys
1 5 10 15

Lys Ile Glu Tyr Thr Asn Lys Ile Thr His
20 25

<210> 475

<211> 25

<212> PRT

<213> Plasmodium falciparum

<400> 475

Lys Gln Lys Glu Asp Lys Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys
1 5 10 15

Ile Glu Tyr Thr Asn Lys Ile Thr His
20 25

<210> 476

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 476

Lys Glu Asp Lys Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys Ile Glu
1 5 10 15

Tyr Thr Asn Lys Ile Thr His
20

<210> 477

<211> 20

<212> PRT

<213> Plasmodium falciparum

<400> 477

Lys Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn
1 5 10 15

Lys Ile Thr His
20

SEQ.List.txt

<210> 478

<211> 19

<212> PRT

<213> Plasmodium falciparum

<400> 478

Lys Asn Pro Asn Asp Asn Lys Leu Lys Lys Ile Glu Tyr Thr Asn Lys
 1 5 10 15

Ile Thr His

<210> 479

<211> 13

<212> PRT

<213> Plasmodium falciparum

<400> 479

Lys Leu Lys Lys Ile Glu Tyr Thr Asn Lys Ile Thr His
 1 5 10

<210> 480

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 480

Lys Lys Ile Glu Tyr Thr Asn Lys Ile Thr His
 1 5 10

<210> 481

<211> 10

<212> PRT

<213> Plasmodium falciparum

<400> 481

Lys Ile Glu Tyr Thr Asn Lys Ile Thr His
 1 5 10

<210> 482

<211> 44

<212> PRT

<213> Plasmodium falciparum

<400> 482

SEQ.List.txt

His Gly Gln Ile Lys Ile Glu Asp Val Asn Asn Glu Asn Phe Asn Asn
1 5 10 15

Glu Gln Met Lys Asn Lys Tyr Asn Asp Glu Glu Lys Met Asp Ile Ser
20 25 30

Lys Ser Lys Ser Leu Lys Ser Asp Phe Leu Glu Lys
35 40

<210> 483

<211> 38

<212> PRT

<213> Plasmodium falciparum

<400> 483

His Gly Gln Ile Lys Ile Glu Asp Val Asn Asn Glu Asn Phe Asn Asn
1 5 10 15

Glu Gln Met Lys Asn Lys Tyr Asn Asp Glu Glu Lys Met Asp Ile Ser
20 25 30

Lys Ser Lys Ser Leu Lys
35

<210> 484

<211> 35

<212> PRT

<213> Plasmodium falciparum

<400> 484

His Gly Gln Ile Lys Ile Glu Asp Val Asn Asn Glu Asn Phe Asn Asn
1 5 10 15

Glu Gln Met Lys Asn Lys Tyr Asn Asp Glu Glu Lys Met Asp Ile Ser
20 25 30

Lys Ser Lys
35

<210> 485

<211> 33

<212> PRT

<213> Plasmodium falciparum

<400> 485

SEQ.List.txt

His Gly Gln Ile Lys Ile Glu Asp Val Asn Asn Glu Asn Phe Asn Asn
1 5 10 15

Glu Gln Met Lys Asn Lys Tyr Asn Asp Glu Glu Lys Met Asp Ile Ser
20 25 30

Lys

<210> 486

<211> 31

<212> PRT

<213> Plasmodium falciparum

<400> 486

Lys Lys Tyr Asp Asp Leu Gln Asn Lys Tyr Asn Ile Leu Asn Lys Leu
1 5 10 15

Lys Asn Ser Leu Glu Glu Lys Asn Glu Glu Leu Lys Lys Tyr His
20 25 30

<210> 487

<211> 30

<212> PRT

<213> Plasmodium falciparum

<400> 487

Lys Tyr Asp Asp Leu Gln Asn Lys Tyr Asn Ile Leu Asn Lys Leu Lys
1 5 10 15

Asn Ser Leu Glu Glu Lys Asn Glu Glu Leu Lys Lys Tyr His
20 25 30

<210> 488

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 488

Lys Tyr Asn Ile Leu Asn Lys Leu Lys Asn Ser Leu Glu Glu Lys Asn
1 5 10 15

Glu Glu Leu Lys Lys Tyr His
20

SEQ.List.txt

<210> 489

<211> 17

<212> PRT

<213> Plasmodium falciparum

<400> 489

Lys Leu Lys Asn Ser Leu Glu Glu Lys Asn Glu Glu Leu Lys Lys Tyr
1 5 10 15

His

<210> 490

<211> 15

<212> PRT

<213> Plasmodium falciparum

<400> 490

Lys Asn Ser Leu Glu Glu Lys Asn Glu Glu Leu Lys Lys Tyr His
1 5 10 15

<210> 491

<211> 9

<212> PRT

<213> Plasmodium falciparum

<400> 491

Lys Asn Glu Glu Leu Lys Lys Tyr His
1 5

<210> 492

<211> 44

<212> PRT

<213> Plasmodium falciparum

<400> 492

His Met Gly Asn Asn Gln Asp Ile Asn Glu Asn Val Tyr Asn Ile Lys
1 5 10 15

Pro Gln Glu Phe Lys Glu Glu Glu Glu Glu Asp Ile Ser Met Val Asn
20 25 30

Thr Lys Lys Cys Asp Asp Ile Gln Glu Asn Ile Lys
35 40

SEQ.List.txt

<210> 493

<211> 50

<212> PRT

<213> Plasmodium falciparum

<400> 493

Lys Thr Asn Leu Tyr Asn Ile Tyr Asn Asn Lys Asn Asp Asp Lys Asp
1 5 10 15

Asn Ile Leu Asp Asn Glu Asn Arg Glu Gly Leu Tyr Leu Cys Asp Val
20 25 30

Met Lys Asn Ser Asn Glu Leu Lys Arg Ile Asn Asp Asn Phe Phe Lys
35 40 45

Leu His
50

<210> 494

<211> 17

<212> PRT

<213> Plasmodium falciparum

<400> 494

Lys Asn Ser Asn Glu Leu Lys Arg Ile Asn Asp Asn Phe Phe Lys Leu
1 5 10 15

His

<210> 495

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 495

Lys Arg Ile Asn Asp Asn Phe Phe Lys Leu His
1 5 10

<210> 496

<211> 40

<212> PRT

<213> Plasmodium falciparum

<400> 496

His Ile Asn Asn Glu Tyr Thr Asn Lys Asn Pro Lys Asn Cys Leu Leu

SEQ.List.txt

1 5 10 15

Tyr Lys Asn Glu Glu Arg Asn Tyr Asn Asp Asn Asn Ile Lys Asp Tyr
20 25 30

Ile Asn Ser Met Asn Phe Lys Lys
35 40

<210> 497

<211> 39

<212> PRT

<213> Plasmodium falciparum

<400> 497

His Ile Asn Asn Glu Tyr Thr Asn Lys Asn Pro Lys Asn Cys Leu Leu
1 5 10 15

Tyr Lys Asn Glu Glu Arg Asn Tyr Asn Asp Asn Asn Ile Lys Asp Tyr
20 25 30

Ile Asn Ser Met Asn Phe Lys
35

<210> 498

<211> 18

<212> PRT

<213> Plasmodium falciparum

<400> 498

His Ile Asn Asn Glu Tyr Thr Asn Lys Asn Pro Lys Asn Cys Leu Leu
1 5 10 15

Tyr Lys

<210> 499

<211> 45

<212> PRT

<213> Plasmodium falciparum

<400> 499

Lys Pro Cys Leu Tyr Lys Lys Cys Lys Ile Ser Gln Val Trp Trp Cys
1 5 10 15

Met Pro Val Lys Asp Thr Phe Asn Thr Tyr Glu Arg Asn Asn Val Leu
20 25 30

SEQ.List.txt

Asn Ser Lys Ile Glu Asn Asn Ile Glu Lys Ile Pro His
 35 40 45

<210> 500
 <211> 39
 <212> PRT
 <213> Plasmodium falciparum

<400> 500
 Lys Cys Lys Ile Ser Gln Val Trp Trp Cys Met Pro Val Lys Asp Thr
 1 5 10 15
 Phe Asn Thr Tyr Glu Arg Asn Asn Val Leu Asn Ser Lys Ile Glu Asn
 20 25 30

Asn Ile Glu Lys Ile Pro His
 35

<210> 501
 <211> 11
 <212> PRT
 <213> Plasmodium falciparum

<400> 501
 Lys Ile Glu Asn Asn Ile Glu Lys Ile Pro His
 1 5 10

<210> 502
 <211> 23
 <212> PRT
 <213> Plasmodium falciparum

<400> 502
 Lys Asn Lys Thr Asn Gly Ser Lys Gly Val Lys Gly Glu Tyr Glu Lys
 1 5 10 15

Lys Lys Glu Thr Asn Gly His
 20

<210> 503
 <211> 21
 <212> PRT
 <213> Plasmodium falciparum

SEQ.List.txt

<400> 503

Lys Thr Asn Gly Ser Lys Gly Val Lys Gly Glu Tyr Glu Lys Lys Lys
1 5 10 15

Glu Thr Asn Gly His
20

<210> 504

<211> 16

<212> PRT

<213> Plasmodium falciparum

<400> 504

Lys Gly Val Lys Gly Glu Tyr Glu Lys Lys Lys Glu Thr Asn Gly His
1 5 10 15

<210> 505

<211> 13

<212> PRT

<213> Plasmodium falciparum

<400> 505

Lys Gly Glu Tyr Glu Lys Lys Lys Glu Thr Asn Gly His
1 5 10

<210> 506

<211> 60

<212> PRT

<213> Plasmodium falciparum

<400> 506

Lys Thr Ile Glu Lys Ile Asn Lys Ser Lys Ser Trp Phe Phe Glu Glu
1 5 10 15

Leu Asp Glu Ile Asp Lys Pro Leu Ala Lys Leu Arg Lys Arg Glu Lys
20 25 30

Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile Asp
35 40 45

Asn Thr Glu Ile Gln Lys Ile Ile Arg Asp Tyr His
50 55 60

SEQ.List.txt

<210> 507

<211> 56

<212> PRT

<213> Plasmodium falciparum

<400> 507

Lys Ile Asn Lys Ser Lys Ser Trp Phe Phe Glu Glu Leu Asp Glu Ile
1 5 10 15

Asp Lys Pro Leu Ala Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn
20 25 30

Lys Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile
35 40 45

Gln Lys Ile Ile Arg Asp Tyr His
50 55

<210> 508

<211> 39

<212> PRT

<213> Plasmodium falciparum

<400> 508

Lys Pro Leu Ala Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys
1 5 10 15

Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln
20 25 30

Lys Ile Ile Arg Asp Tyr His
35

<210> 509

<211> 32

<212> PRT

<213> Plasmodium falciparum

<400> 509

His Ile Met Leu Lys Ser Gln Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys Lys Lys Ser Ser Ser Ser Asn Lys Val His
20 25 30

SEQ.List.txt

<210> 510
 <211> 35
 <212> PRT
 <213> Plasmodium falciparum

<400> 510
 Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu
 1 5 10 15
 Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg
 20 25 30
 Asp Tyr His
 35

<210> 511
 <211> 32
 <212> PRT
 <213> Plasmodium falciparum

<400> 511
 Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp
 1 5 10 15
 Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg Asp Tyr His
 20 25 30

<210> 512
 <211> 29
 <212> PRT
 <213> Plasmodium falciparum

<400> 512
 Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile
 1 5 10 15
 Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg Asp Tyr His
 20 25

<210> 513
 <211> 48
 <212> PRT
 <213> Plasmodium falciparum

<400> 513

SEQ.List.txt

Lys Pro Leu Ala Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys
1 5 10 15

Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln
20 25 30

Lys Ile Ile Arg Asp Tyr His Thr Leu Asn Val His Lys Leu Asp His
35 40 45

<210> 514

<211> 44

<212> PRT

<213> Plasmodium falciparum

<400> 514

Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu
1 5 10 15

Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg
20 25 30

Asp Tyr His Thr Leu Asn Val His Lys Leu Asp His
35 40

<210> 515

<211> 41

<212> PRT

<213> Plasmodium falciparum

<400> 515

Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp
1 5 10 15

Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg Asp Tyr His
20 25 30

Thr Leu Asn Val His Lys Leu Asp His
35 40

<210> 516

<211> 38

<212> PRT

<213> Plasmodium falciparum

<400> 516

SEQ.List.txt

Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile
1 5 10 15

Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg Asp Tyr His Thr Leu Asn
20 25 30

Val His Lys Leu Asp His
35

<210> 517

<211> 44

<212> PRT

<213> Plasmodium falciparum

<400> 517

Lys Pro Leu Ala Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys
1 5 10 15

Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln
20 25 30

Lys Ile Ile Arg Asp Tyr His Thr Leu Asn Val His
35 40

<210> 518

<211> 40

<212> PRT

<213> Plasmodium falciparum

<400> 518

Lys Leu Arg Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu
1 5 10 15

Arg Gly Asp Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg
20 25 30

Asp Tyr His Thr Leu Asn Val His
35 40

<210> 519

<211> 37

<212> PRT

<213> Plasmodium falciparum

<400> 519

SEQ.List.txt

Lys Arg Glu Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp
1 5 10 15

Val Ile Ile Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg Asp Tyr His
20 25 30

Thr Leu Asn Val His
35

<210> 520

<211> 34

<212> PRT

<213> Plasmodium falciparum

<400> 520

Lys Thr Gln Ile Asn Lys Thr Lys Tyr Glu Arg Gly Asp Val Ile Ile
1 5 10 15

Asp Asn Thr Glu Ile Gln Lys Ile Ile Arg Asp Tyr His Thr Leu Asn
20 25 30

Val His

<210> 521

<211> 32

<212> PRT

<213> Plasmodium falciparum

<400> 521

His Ile Met Leu Lys Ser Gln Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys Lys Lys Ser Ser Ser Ser Asn Lys Val His
20 25 30

<210> 522

<211> 28

<212> PRT

<213> Plasmodium falciparum

<400> 522

Lys Ser Gln Met Tyr Thr Asn Glu Gly Asn Lys Ser Cys Glu Cys Ser
1 5 10 15

Tyr Lys Lys Lys Ser Ser Ser Ser Asn Lys Val His

<210> 523
<211> 18
<212> PRT
<213> Plasmodium falciparum

<400> 523
Lys Ser Cys Glu Cys Ser Tyr Lys Lys Lys Ser Ser Ser Ser Asn Lys
1 5 10 15

Val His

<210> 524
<211> 11
<212> PRT
<213> Plasmodium falciparum

<400> 524
Lys Lys Lys Ser Ser Ser Ser Asn Lys Val His
1 5 10

<210> 525
<211> 10
<212> PRT
<213> Plasmodium falciparum

<400> 525
Lys Lys Ser Ser Ser Ser Asn Lys Val His
1 5 10

<210> 526
<211> 9
<212> PRT
<213> Plasmodium falciparum

<400> 526
Lys Ser Ser Ser Ser Asn Lys Val His
1 5

<210> 527
<211> 30
<212> PRT

SEQ.List.txt

<213> Plasmodium falciparum

<400> 527

His Ile Met Leu Lys Ser Gln Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys Lys Lys Ser Ser Ser Ser Asn Lys
20 25 30

<210> 528

<211> 24

<212> PRT

<213> Plasmodium falciparum

<400> 528

His Ile Met Leu Lys Ser Gln Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys Lys Lys
20

<210> 529

<211> 23

<212> PRT

<213> Plasmodium falciparum

<400> 529

His Ile Met Leu Lys Ser Gln Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys Lys
20

<210> 530

<211> 22

<212> PRT

<213> Plasmodium falciparum

<400> 530

His Ile Met Leu Lys Ser Gln Met Tyr Thr Asn Glu Gly Asn Lys Ser
1 5 10 15

Cys Glu Cys Ser Tyr Lys
20

SEQ.List.txt

<210> 531
 <211> 36
 <212> PRT
 <213> Plasmodium falciparum

<400> 531
 His Asn Asn His Asn Ile Gln Ile Tyr Lys Asp Lys Arg Ile Asn Phe
 1 5 10 15
 Met Asn Pro His Lys Val Met Tyr His Asp Asn Met Ser Lys Asn Glu
 20 25 30
 Arg Thr Glu Lys
 35

<210> 532
 <211> 30
 <212> PRT
 <213> Plasmodium falciparum

<400> 532
 His Asn Asn His Asn Ile Gln Ile Tyr Lys Asp Lys Arg Ile Asn Phe
 1 5 10 15
 Met Asn Pro His Lys Val Met Tyr His Asp Asn Met Ser Lys
 20 25 30

<210> 533
 <211> 21
 <212> PRT
 <213> Plasmodium falciparum

<400> 533
 His Asn Asn His Asn Ile Gln Ile Tyr Lys Asp Lys Arg Ile Asn Phe
 1 5 10 15
 Met Asn Pro His Lys
 20

<210> 534
 <211> 17
 <212> PRT
 <213> Plasmodium falciparum

SEQ.List.txt

<400> 534

His Lys Val Met Tyr His Asp Asn Met Ser Lys Asn Glu Arg Thr Glu
1 5 10 15

Lys

<210> 535

<211> 11

<212> PRT

<213> Plasmodium falciparum

<400> 535

His Lys Val Met Tyr His Asp Asn Met Ser Lys
1 5 10

<210> 536

<211> 40

<212> PRT

<213> Homo sapiens

<400> 536

His Arg Glu Ile Cys Thr Ile Gln Ser Ser Gly Gly Ile Met Leu Leu
1 5 10 15

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

Glu Ile Thr Glu Leu Ile Leu Lys
35 40

<210> 537

<211> 25

<212> PRT

<213> Homo sapiens

<400> 537

His Arg Glu Ile Cys Thr Ile Gln Ser Ser Gly Gly Ile Met Leu Leu
1 5 10 15

Lys Asp Gln Val Leu Arg Cys Ser Lys
20 25

<210> 538

<211> 47

SEQ.List.txt

<212> PRT

<213> Homo sapiens

<400> 538

His Arg Glu Ile Cys Thr Ile Gln Ser Ser Gly Gly Ile Met Leu Leu
1 5 10 15

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

Glu Ile Thr Glu Leu Ile Leu Lys Ala Leu Glu Asn Asp Gln Lys
35 40 45

<210> 539

<211> 40

<212> PRT

<213> Homo sapiens

<400> 539

His Arg Glu Ile Cys Thr Ile Gln Ala Ala Gly Gly Ile Met Leu Leu
1 5 10 15

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

Glu Ile Thr Glu Leu Ile Leu Lys
35 40

<210> 540

<211> 23

<212> PRT

<213> Homo sapiens

<400> 540

Lys Lys Met Gln Gln Glu Asn Met Lys Pro Gln Glu Gln Leu Thr Leu
1 5 10 15

Glu Pro Tyr Glu Arg Asp His
20

<210> 541

<211> 22

<212> PRT

<213> Homo sapiens

SEQ.List.txt

<400> 541

Lys Met Gln Gln Glu Asn Met Lys Pro Gln Glu Gln Leu Thr Leu Glu
1 5 10 15

Pro Tyr Glu Arg Asp His
20

<210> 542

<211> 38

<212> PRT

<213> Homo sapiens

<400> 542

His Glu Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Val
1 5 10 15

Glu Pro Glu Val Phe Lys Glu Met Met Cys Phe Ile Tyr Thr Gly Lys
20 25 30

Ala Pro Asn Leu Asp Lys
35

<210> 543

<211> 32

<212> PRT

<213> Homo sapiens

<400> 543

His Glu Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Val
1 5 10 15

Glu Pro Glu Val Phe Lys Glu Met Met Cys Phe Ile Tyr Thr Gly Lys
20 25 30

<210> 544

<211> 9

<212> PRT

<213> Homo sapiens

<400> 544

Lys His Gly Glu Leu Lys Val Tyr Lys
1 5

<210> 545

SEQ.List.txt

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

<400> 545
 Lys Leu Ile Leu Gly Pro Gln Glu Glu Lys Gly Lys Gln His
 1 5 10

<210> 546
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 546
 Lys Asn Arg Ile His His Lys
 1 5

<210> 547
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 547
 His His Asn Ser Ser Arg Lys Ser Thr Lys Lys Thr Asn Gln Ser Ser
 1 5 10 15

Lys

<210> 548
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 548
 His Asn Ser Ser Arg Lys Ser Thr Lys Lys Thr Asn Gln Ser Ser Lys
 1 5 10 15

<210> 549
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 549

SEQ.List.txt

Lys His His Asn Ile Leu Pro Lys Thr Leu Ala Asn Asp Lys His Ser
 1 5 10 15

His Lys Pro His
 20

<210> 550
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 550
 His His Asn Ile Leu Pro Lys Thr Leu Ala Asn Asp Lys His Ser His
 1 5 10 15

Lys

<210> 551
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 551
 His Asn Ile Leu Pro Lys Thr Leu Ala Asn Asp Lys His Ser His Lys
 1 5 10 15

<210> 552
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 552
 His Asn Ile Leu Pro Lys Thr Leu Ala Asn Asp Lys
 1 5 10

<210> 553
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 553
 Lys Asn Thr Pro Asp Ser Lys Lys Ile Ser Ser Arg Asn Ile Asn Asp
 1 5 10 15

SEQ.List.txt

His His

<210> 554

<211> 17

<212> PRT

<213> Homo sapiens

<400> 554

Lys Asn Thr Pro Asp Ser Lys Lys Ile Ser Ser Arg Asn Ile Asn Asp
1 5 10 15

His

<210> 555

<211> 27

<212> PRT

<213> Homo sapiens

<400> 555

Lys Asp Thr Cys Ile Gln Ser Pro Ser Lys Glu Cys Gln Lys Ser His
1 5 10 15

Pro Lys Ser Val Pro Val Ser Ser Lys Lys Lys
20 25

<210> 556

<211> 26

<212> PRT

<213> Homo sapiens

<400> 556

Lys Asp Thr Cys Ile Gln Ser Pro Ser Lys Glu Cys Gln Lys Ser His
1 5 10 15

Pro Lys Ser Val Pro Val Ser Ser Lys Lys
20 25

<210> 557

<211> 12

<212> PRT

<213> Homo sapiens

SEQ.List.txt

<400> 557

His Pro Lys Ser Val Pro Val Ser Ser Lys Lys Lys ,
 1 5 10

<210> 558.

<211> 11

<212> PRT

<213> Homo sapiens

<400> 558

His Pro Lys Ser Val Pro Val Ser Ser Lys Lys
 1 5 10

<210> 559

<211> 10

<212> PRT

<213> Homo sapiens

<400> 559

His Pro Lys Ser Val Pro Val Ser Ser Lys
 1 5 10

<210> 560

<211> 14

<212> PRT

<213> Homo sapiens

<400> 560

Lys Ala Leu Gln Glu Lys Val Glu Ile Lys Gln Leu Asn His
 1 5 10

<210> 561

<211> 42

<212> PRT

<213> Homo sapiens

<400> 561

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

Ala Gln Glu Ile Phe Gln Asp Asn His Glu Asp Gly Pro Thr Ala Lys
 20 25 30

SEQ.List.txt

Lys Leu Lys Thr Glu Gln Gly Gly Ala His
35 40

<210> 562
<211> 25
<212> PRT
<213> Homo sapiens

<400> 562
Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys Lys Asp Gln Val Thr
1 5 10 15

Ala Gln Glu Ile Phe Gln Asp Asn His
20 25

<210> 563
<211> 14
<212> PRT
<213> Homo sapiens

<400> 563
Lys Leu Cys Val Phe Lys Lys Ile Glu Arg His Ser Ile His
1 5 10

<210> 564
<211> 11
<212> PRT
<213> Homo sapiens

<400> 564
Lys Leu Cys Val Phe Lys Lys Ile Glu Arg His
1 5 10

<210> 565
<211> 22
<212> PRT
<213> Homo sapiens

<400> 565
His Gly Pro Ser Phe Pro Leu Lys Gly Ile Thr Glu Gln Gln Lys Glu
1 5 10 15

Gly Leu Glu Ile Val Lys
20

SEQ.List.txt

<210> 566

<211> 15

<212> PRT

<213> Homo sapiens

<400> 566

His Gly Pro Ser Phe Pro Leu Lys Gly Ile Thr Glu Gln Gln Lys
1 5 10 15

<210> 567

<211> 13

<212> PRT

<213> Homo sapiens

<400> 567

His Thr Leu Leu Lys Ile Leu Ser Thr Phe Leu Phe Lys
1 5 10

<210> 568

<211> 14

<212> PRT

<213> Homo sapiens

<400> 568

His Leu Leu Gly Asn Asn Asp Lys Asn Leu Leu Pro Ser Lys
1 5 10

<210> 569

<211> 19

<212> PRT

<213> Homo sapiens

<400> 569

His Arg His Glu Gly Val Phe Ile Cys Arg Gly Lys Glu Asp Ala Leu
1 5 10 15

Val Thr Lys

<210> 570

<211> 17

<212> PRT

SEQ.List.txt

<213> Homo sapiens

<400> 570

His Glu Gly Val Phe Ile Cys Arg Gly Lys Glu Asp Ala Leu Val Thr
1 5 10 15

Lys

<210> 571

<211> 20

<212> PRT

<213> Homo sapiens

<400> 571

His Ser Gly Gly Asn Arg Gly Arg Gly Arg Gly Gly Lys Arg Gly Asn
1 5 10 15

Gln Ser Gly Lys
20

<210> 572

<211> 15

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<400> 572

Lys Arg Gly Asn Gln Ser Gly Lys Asn Val Met Val Glu Pro His
1 5 10 15

<210> 573

<211> 17

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<213> Homo sapiens

<400> 573

Lys Arg Gly Asn Gln Ser Gly Lys Asn Val Met Val Glu Pro His Arg
1 5 10 15

His

<210> 574

<211> 23

SEQ.List.txt

<212> PRT

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<400> 574

Lys Lys Met Gln Gln Glu Asn Met Lys Pro Gln Glu Gln Leu Thr Leu
1 5 10 15

Glu Pro Tyr Glu Arg Asp His
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<210> 575

<211> 22

<212> PRT

<213> Homo sapiens

<400> 575

Lys Met Gln Gln Glu Asn Met Lys Pro Gln Glu Gln Leu Thr Leu Glu
1 5 10 15

Pro Tyr Glu Arg Asp His
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<210> 576

<211> 16

<212> PRT

<213> Homo sapiens

<400> 576

His Ala Tyr Pro Glu Asp Ala Glu Asn Lys Glu Lys Glu Thr Ala Lys
1 5 10 15

<210> 577

<211> 22

<212> PRT

<213> Homo sapiens

<400> 577

Lys Glu Ala Asn Val Lys Cys Pro Gln Ile Val Ile Ala Phe Tyr Glu
1 5 10 15

Glu Arg Leu Thr Trp His
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<210> 578

SEQ.List.txt

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<400> 578
 Lys Val Leu Asp Arg Arg Val Val Lys Gly Gln Val Glu Tyr Leu Leu
 1 5 10 15
 Lys Trp Lys Gly Phe Ser Glu Glu His
 20 25

<210> 579
 <211> 17
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<400> 579
 Lys Gly Gln Val Glu Tyr Leu Leu Lys Trp Lys Gly Phe Ser Glu Glu
 1 5 10 15
 His

<210> 580
 <211> 32
 <212> PRT
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<400> 580
 Lys Ser Glu Val Ala Ala Gly Val Lys Lys Ser Gly Pro Leu Pro Ser
 1 5 10 15
 Ala Glu Arg Leu Glu Asn Val Leu Phe Gly Pro His Asp Cys Ser His
 20 25 30

<210> 581
 <211> 28
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 <213> Homo sapiens

<400> 581
 Lys Ser Glu Val Ala Ala Gly Val Lys Lys Ser Gly Pro Leu Pro Ser
 1 5 10 15
 Ala Glu Arg Leu Glu Asn Val Leu Phe Gly Pro His
 20 25

SEQ.List.txt

<210> 582

<211> 28

<212> PRT

<213> Homo sapiens

<400> 582

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

Leu His Ala Lys Asn Ile Ile Arg Pro Gln Leu Lys
 20 25

<210> 583

<211> 20

<212> PRT

<213> Homo sapiens

<400> 583

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

Leu His Ala Lys
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<210> 584

<211> 11

<212> PRT

<213> Homo sapiens

<400> 584

Lys Ser Glu Thr Phe Arg Leu Leu His Ala Lys
 1 5 10

<210> 585

<211> 11

<212> PRT

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<400> 585

His Ala Lys Asn Ile Ile Arg Pro Gln Leu Lys
 1 5 10

SEQ.List.txt

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<212> PRT

<213> Homo sapiens

<400> 586

His Met Met Leu Lys Ile Ala Glu Glu Leu Pro Lys
 1 5 10

<210> 587

<211> 17

<212> PRT

<213> Homo sapiens

<400> 587

His Ser Leu Asp His Leu Leu Lys Leu Tyr Cys Asn Val Asp Ser Asn
 1 5 10 15

Lys

<210> 588

<211> 13

<212> PRT

<213> Homo sapiens

<400> 588

His Leu Leu Lys Leu Tyr Cys Asn Val Asp Ser Asn Lys
 1 5 10

<210> 589

<211> 10

<212> PRT

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<400> 589

Lys Ala Lys Glu Arg Leu Glu Ala Lys His
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<210> 590

<211> 8

<212> PRT

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SEQ.List.txt

<400> 590

Lys Asp Arg Gln His Thr Leu Lys
1 5

<210> 591

<211> 9

<212> PRT

<213> Homo sapiens

<400> 591

Lys Asp Arg Gln His Thr Leu Lys His
1 5

<210> 592

<211> 12

<212> PRT

<213> Homo sapiens

<400> 592

Lys Glu Thr Cys Ser Glu Lys Ser Thr Asn Leu His
1 5 10

<210> 593

<211> 16

<212> PRT

<213> Homo sapiens

<400> 593

Lys Thr Glu Glu Ile Ser Glu Val Lys Met Asp Ala Glu Phe Gly His
1 5 10 15

<210> 594

<211> 24

<212> PRT

<213> Homo sapiens

<400> 594

Lys Thr Glu Glu Ile Ser Glu Val Lys Met Asp Ala Glu Phe Gly His
1 5 10 15

Asp Ser Gly Phe Glu Val Arg His
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SEQ.List.txt

<210> 595

<211> 17

<212> PRT

<213> Homo sapiens

<400> 595

Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His Thr Leu Lys
 1 5 10 15

His

<210> 596

<211> 16

<212> PRT

<213> Homo sapiens

<400> 596

Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His Thr Leu Lys His
 1 5 10 15

<210> 597

<211> 13

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<213> Homo sapiens

<400> 597

Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His
 1 5 10

<210> 598

<211> 13

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<400> 598

Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His Thr
 1 5 10

<210> 599

<211> 16

<212> PRT

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SEQ.List.txt

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His His Val Phe Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys
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<210> 600

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<400> 600

His Val Phe Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys
 1 5 10 15

<210> 601

<211> 24

<212> PRT

<213> Homo sapiens

<400> 601

His His Val Phe Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys
 1 5 10 15

Asp Arg Gln His Thr Leu Lys His
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<210> 602

<211> 23

<212> PRT

<213> Homo sapiens

<400> 602

His Val Phe Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp
 1 5 10 15

Arg Gln His Thr Leu Lys His
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<210> 603

<211> 15

<212> PRT

<213> Homo sapiens

<400> 603

His Ala His Phe Gln Lys Ala Lys Glu Arg Leu Glu Ala Lys His

SEQ.List.txt

1 5 10 15

<210> 604

<211> 14

<212> PRT

<213> Homo sapiens

<400> 604

His Ala His Phe Gln Lys Ala Lys Glu Arg Leu Glu Ala Lys
1 5 10

<210> 605

<211> 12

<212> PRT

<213> Homo sapiens

<400> 605

His Phe Gln Lys Ala Lys Glu Arg Leu Glu Ala Lys
1 5 10

<210> 606

<211> 30

<212> PRT

<213> Homo sapiens

<400> 606

His Gln Glu Arg Met Asp Val Cys Glu Thr His Leu His Trp His Thr
1 5 10 15

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

<210> 607

<211> 25

<212> PRT

<213> Homo sapiens

<400> 607

His Gln Glu Arg Met Asp Val Cys Glu Thr His Leu His Trp His Thr
1 5 10 15

Val Ala Lys Glu Thr Cys Ser Glu Lys
20 25

SEQ.List.txt

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<400> 608
 His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu Lys
 1 5 10

<210> 609
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 <212> PRT
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<400> 609
 His Thr Val Ala Lys Glu Thr Cys Ser Glu Lys
 1 5 10

<210> 610
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 610
 His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu Lys
 1 5 10 15

<210> 611
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 611
 His Met Asn Val Gln Asn Gly Lys Trp Glu Ser Asp Pro Ser Gly Thr
 1 5 10 15

Lys Thr Cys Ile Gly Thr Lys
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<210> 612
 <211> 17
 <212> PRT
 <213> Homo sapiens

SEQ.List.txt

<400> 612

His Met Asn Val Gln Asn Gly Lys Trp Glu Ser Asp Pro Ser Gly Thr
1 5 10 15

Lys

<210> 613

<211> 19

<212> PRT

<213> Human immunodeficiency virus

<400> 613

His Cys Leu Val Cys Phe Gln Lys Lys Gly Leu Gly Ile Ser Tyr Gly
1 5 10 15

Arg Lys Lys

<210> 614

<211> 27

<212> PRT

<213> Triticum aestivum

<400> 614

His Lys Asp Arg Leu Thr Lys Lys Val Val Asp Ile Ala Arg Glu Val
1 5 10 15

Ala Lys Val Asp Val Pro Glu Tyr Arg Arg His
20 25

<210> 615

<211> 27

<212> PRT

<213> Triticum aestivum

<400> 615

His Lys Glu Arg Leu Asp Arg Lys Val Val Asp Val Ala Arg Glu Val
1 5 10 15

Ala Lys Val Glu Val Pro Ser Tyr Arg Arg His
20 25

SEQ.List.txt

<210> 616

<211> 27

<212> PRT

<213> Triticum aestivum

<400> 616

His Lys Glu Arg Leu Asp Arg Lys Val Val Asp Val Ala Arg Glu Val
1 5 10 15

Ala Lys Met Glu Val Pro Ser Tyr Arg Arg His
20 25

<210> 617

<211> 23

<212> PRT

<213> Triticum aestivum

<400> 617

His Leu Gln Pro Lys Trp Lys Pro Ser Leu Ser Trp Phe Lys Asn Ala
1 5 10 15

Glu Ser Arg Leu Asn His His
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<210> 618

<211> 14

<212> PRT

<213> Triticum aestivum

<400> 618

His Leu Gln Pro Lys Trp Lys Pro Ser Leu Ser Trp Phe Lys
1 5 10

<210> 619

<211> 19

<212> PRT

<213> Triticum aestivum

<400> 619

Lys Trp Lys Pro Ser Leu Ser Trp Phe Lys Asn Ala Glu Ser Arg Leu
1 5 10 15

Asn His His

SEQ.List.txt

<210> 620
 <211> 18
 <212> PRT
 <213> Triticum aestivum

<400> 620
 Lys Trp Lys Pro Ser Leu Ser Trp Phe Lys Asn Ala Glu Ser Arg Leu
 1 5 10 15

Asn His

<210> 621
 <211> 17
 <212> PRT
 <213> Triticum aestivum

<400> 621
 Lys Pro Ser Leu Ser Trp Phe Lys Asn Ala Glu Ser Arg Leu Asn His
 1 5 10 15

His

<210> 622
 <211> 16
 <212> PRT
 <213> Triticum aestivum

<400> 622
 Lys Pro Ser Leu Ser Trp Phe Lys Asn Ala Glu Ser Arg Leu Asn His
 1 5 10 15

<210> 623
 <211> 32
 <212> PRT
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<400> 623
 His His Ala Ile Ala Leu Gly Leu His Thr Thr Thr Leu Ile Leu Val
 1 5 10 15

Lys Gly Ala Leu Asp Ala Arg Gly Ser Lys Leu Met Pro Asp Lys Lys
 20 25 30

SEQ.List.txt

<210> 624
 <211> 31
 <212> PRT
 <213> Triticum aestivum

<400> 624
 His Ala Ile Ala Leu Gly Leu His Thr Thr Thr Leu Ile Leu Val Lys
 1 5 10 15
 Gly Ala Leu Asp Ala Arg Gly Ser Lys Leu Met Pro Asp Lys Lys
 20 25 30

<210> 625
 <211> 26
 <212> PRT
 <213> Triticum aestivum

<400> 625
 His His Ala Ile Ala Leu Gly Leu His Thr Thr Thr Leu Ile Leu Val
 1 5 10 15
 Lys Gly Ala Leu Asp Ala Arg Gly Ser Lys
 20 25

<210> 626
 <211> 25
 <212> PRT
 <213> Triticum aestivum

<400> 626
 His Ala Ile Ala Leu Gly Leu His Thr Thr Thr Leu Ile Leu Val Lys
 1 5 10 15
 Gly Ala Leu Asp Ala Arg Gly Ser Lys
 20 25

<210> 627
 <211> 24
 <212> PRT
 <213> Triticum aestivum

<400> 627
 His Thr Thr Thr Leu Ile Leu Val Lys Gly Ala Leu Asp Ala Arg Gly

SEQ.List.txt

1	5	10	15
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Ser Lys Leu Met Pro Asp Lys Lys
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<210> 628
 <211> 23
 <212> PRT
 <213> Triticum aestivum

<400> 628
 His Thr Thr Thr Leu Ile Leu Val Lys Gly Ala Leu Asp Ala Arg Gly
 1 5 10 15

Ser Lys Leu Met Pro Asp Lys
20

<210> 629
 <211> 18
 <212> PRT
 <213> Triticum aestivum

<400> 629
 His Thr Thr Thr Leu Ile Leu Val Lys Gly Ala Leu Asp Ala Arg Gly
 1 5 10 15

Ser Lys

<210> 630
 <211> 44
 <212> PRT
 <213> Triticum aestivum

<400> 630
 His His His Leu Ala Ile Ala Ile Leu Phe Leu Ile Ala Gly His Met
 1 5 10 15

Tyr Arg Thr Asn Trp Gly Ile Gly His Gly Leu Lys Asp Ile Leu Glu
 20 25 30

Ala His Lys Gly Pro Phe Thr Gly Gln Gly His Lys
 35 40

SEQ.List.txt

<210> 631
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<400> 631
 His His Leu Ala Ile Ala Ile Leu Phe Leu Ile Ala Gly His Met Tyr
 1 5 10 15
 Arg Thr Asn Trp Gly Ile Gly His Gly Leu Lys Asp Ile Leu Glu Ala
 20 25 30
 His Lys Gly Pro Phe Thr Gly Gln Gly His Lys
 35 40

<210> 632
 <211> 42
 <212> PRT
 <213> Triticum aestivum

<400> 632
 His Leu Ala Ile Ala Ile Leu Phe Leu Ile Ala Gly His Met Tyr Arg
 1 5 10 15
 Thr Asn Trp Gly Ile Gly His Gly Leu Lys Asp Ile Leu Glu Ala His
 20 25 30
 Lys Gly Pro Phe Thr Gly Gln Gly His Lys
 35 40

<210> 633
 <211> 30
 <212> PRT
 <213> Triticum aestivum

<400> 633
 His Met Tyr Arg Thr Asn Trp Gly Ile Gly His Gly Leu Lys Asp Ile
 1 5 10 15
 Leu Glu Ala His Lys Gly Pro Phe Thr Gly Gln Gly His Lys
 20 25 30

<210> 634
 <211> 20
 <212> PRT

SEQ.List.txt

<213> Triticum aestivum

<400> 634

His Gly Leu Lys Asp Ile Leu Glu Ala His Lys Gly Pro Phe Thr Gly
1 5 10 15

Gln Gly His Lys
20

<210> 635

<211> 17

<212> PRT

<213> Triticum aestivum

<400> 635

Lys Asp Ile Leu Glu Ala His Lys Gly Pro Phe Thr Gly Gln Gly His
1 5 10 15

Lys

<210> 636

<211> 11

<212> PRT

<213> Triticum aestivum

<400> 636

His Lys Gly Pro Phe Thr Gly Gln Gly His Lys
1 5 10

<210> 637

<211> 10

<212> PRT

<213> Triticum aestivum

<400> 637

Lys Gly Pro Phe Thr Gly Gln Gly His Lys
1 5 10

<210> 638

<211> 16

<212> PRT

<213> Oryza sativa

SEQ.List.txt

<400> 638

Lys Phe Pro Asp Val Ile His Ala Phe Lys Pro Asn Pro Arg Ser His
1 5 10 15

<210> 639

<211> 10

<212> PRT

<213> Oryza sativa

<400> 639

Lys Phe Pro Asp Val Ile His Ala Phe Lys
1 5 10

<210> 640

<211> 10

<212> PRT

<213> Oryza sativa

<400> 640

Lys Ala Arg Tyr Val Lys Phe His Trp Lys
1 5 10

<210> 641

<211> 33

<212> PRT

<213> Oryza sativa

<400> 641

His Pro Lys Val Ser Pro Glu Leu Arg Ala Ile Trp Val Asn Tyr Leu
1 5 10 15

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

Lys

<210> 642

<211> 45

<212> PRT

<213> Oryza sativa

<400> 642

His Arg Asp Glu Glu Val Asp Tyr Tyr Pro Ser Arg His Ala Pro Leu

SEQ.List.txt

1 5 10 15
 Arg His Ala Pro Pro Thr Pro Ile Thr Pro Arg Pro Val Val Gly Arg
 20 25 30

Arg Gln Lys Ala Thr Ile His Lys Gln Asn Asp Phe Lys
 35 40 45

<210> 643
 <211> 11
 <212> PRT
 <213> Oryza sativa

<400> 643
 Lys Ala Thr Ile His Lys Gln Asn Asp Phe Lys
 1 5 10

<210> 644
 <211> 27
 <212> PRT
 <213> Oryza sativa

<400> 644
 His Ala Pro Pro Thr Pro Ile Pro Arg Pro Val Val Gly Arg Arg Gln
 1 5 10 15

Lys Ala Thr Ile His Lys Gln Asn Asp Phe Lys
 20 25

<210> 645
 <211> 49
 <212> PRT
 <213> Oryza sativa

<400> 645
 Lys Phe Arg Pro Ser Ser Ser Phe Asp Thr Lys Thr Thr Thr Thr Asn
 1 5 10 15

Ala Gly Ala Pro Val Trp Asn Asp Asn Glu Ala Leu Thr Val Gly Pro
 20 25 30

Arg Gly Pro Ile Leu Leu Glu Asp Tyr His Leu Ile Glu Lys Val Ala
 35 40 45

His

SEQ.List.txt

<210> 646
 <211> 42
 <212> PRT
 <213> Oryza sativa

<400> 646
 Lys Phe Arg Pro Ser Ser Ser Phe Asp Thr Lys Thr Thr Thr Thr Asn
 1 5 10 15
 Ala Gly Ala Pro Val Trp Asn Asp Asn Glu Ala Leu Thr Val Gly Pro
 20 25 30
 Arg Gly Pro Ile Leu Leu Glu Asp Tyr His
 35 40

<210> 647
 <211> 9
 <212> PRT
 <213> Oryza sativa

<400> 647
 Lys Val Lys Ala His Phe Gln Lys His
 1 5

<210> 648
 <211> 8
 <212> PRT
 <213> Oryza sativa

<400> 648
 Lys Val Lys Ala His Phe Gln Lys
 1 5

<210> 649
 <211> 12
 <212> PRT
 <213> Oryza sativa

<400> 649
 Lys Asp Tyr Glu Ile Asp Lys Asp Asp Leu Ile His
 1 5 10

SEQ.List.txt

<210> 650
 <211> 20
 <212> PRT
 <213> Oryza sativa

<400> 650
 His Met Lys Gln Cys Phe Ala Phe Cys Ala Val Phe Pro Lys Asp Tyr
 1 5 10 15
 Glu Ile Asp Lys
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<210> 651
 <211> 14
 <212> PRT
 <213> Oryza sativa

<400> 651
 His Met Lys Gln Cys Phe Ala Phe Cys Ala Val Phe Pro Lys
 1 5 10

<210> 652
 <211> 49
 <212> PRT
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<400> 652
 His Val Phe Trp Glu Leu Val Trp Arg Ser Phe Phe Gln Asn Val Lys
 1 5 10 15
 Gln Ile Gly Ser Ile Phe Gln Arg Lys Val Tyr Arg Tyr Gly Gln Ser
 20 25 30
 Asp Val Thr Thr Ser Lys Ile His Asp Leu Met His Asp Leu Ala Val
 35 40 45
 His

<210> 653
 <211> 34
 <212> PRT
 <213> Oryza sativa

SEQ.List.txt

<400> 653

Lys Gln Ile Gly Ser Ile Phe Gln Arg Lys Val Tyr Arg Tyr Gly Gln
1 5 10 15

Ser Asp Val Thr Thr Ser Lys Ile His Asp Leu Met His Asp Leu Ala
20 25 30

Val His

<210> 654

<211> 29

<212> PRT

<213> Oryza sativa

<400> 654

Lys Gln Ile Gly Ser Ile Phe Gln Arg Lys Val Tyr Arg Tyr Gly Gln
1 5 10 15

Ser Asp Val Thr Thr Ser Lys Ile His Asp Leu Met His
20 25

<210> 655

<211> 25

<212> PRT

<213> Oryza sativa

<400> 655

Lys Gln Ile Gly Ser Ile Phe Gln Arg Lys Val Tyr Arg Tyr Gly Gln
1 5 10 15

Ser Asp Val Thr Thr Ser Lys Ile His
20 25

<210> 656

<211> 9

<212> PRT

<213> Oryza sativa

<400> 656

Lys His Gly Val Ser Ala Gly Ile Lys
1 5

<210> 657

SEQ.List.txt

<211> 15
 <212> PRT
 <213> Oryza sativa

<400> 657
 His Thr Val Phe Asp Tyr Gly Lys Met Arg Val Gly Phe Ala Lys
 1 5 10 15

<210> 658
 <211> 17
 <212> PRT
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<400> 658
 His Ser Arg Tyr Lys Ser Gly Gln Ser Ser Thr Tyr Gln Lys Asn Gly
 1 5 10 15

Lys

<210> 659
 <211> 29
 <212> PRT
 <213> Oryza sativa

<400> 659
 Lys Gln Glu Ala Met Val Leu Lys Gln Glu Ile Asn Leu Leu Gln Lys
 1 5 10 15

Gly Leu Arg Tyr Ile Tyr Gly Asn Arg Ala Asn Glu His
 20 25

<210> 660
 <211> 22
 <212> PRT
 <213> Oryza sativa

<400> 660
 Lys Gln Glu Ile Asn Leu Leu Gln Lys Gly Leu Arg Tyr Ile Tyr Gly
 1 5 10 15

Asn Arg Ala Asn Glu His
 20

SEQ.List.txt

<210> 661
 <211> 38
 <212> PRT
 <213> Oryza sativa

<400> 661
 Lys Ser Lys Glu Gly Met Leu Lys Ala Ala Asn Glu Ile Leu Gln Glu
 1 5 10 15
 Lys Ile Val Glu Gln Asn Gly Leu Ile Asp Val Gly Met Met Val Ala
 20 25 30
 Asp Gln Gln Asn Gly His
 35

<210> 662
 <211> 31
 <212> PRT
 <213> Oryza sativa

<400> 662
 Lys Ala Ala Asn Glu Ile Leu Gln Glu Lys Ile Val Glu Gln Asn Gly
 1 5 10 15
 Leu Ile Asp Val Gly Met Met Val Ala Asp Gln Gln Asn Gly His
 20 25 30

<210> 663
 <211> 11
 <212> PRT
 <213> Zea mays

<400> 663
 Lys Val Leu Ala Ala His Arg Tyr Gly Ile Lys
 1 5 10

<210> 664
 <211> 17
 <212> PRT
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<400> 664
 Lys Leu Lys Ile Ala Met Lys His Leu Ile Pro Arg Val Leu Glu Gln
 1 5 10 15

SEQ.List.txt

His

<210> 665
 <211> 8
 <212> PRT
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<400> 665
 Lys Leu Lys Ile Ala Met Lys His
 1 5

<210> 666
 <211> 33
 <212> PRT
 <213> Zea mays

<400> 666
 Lys Thr Ser Leu Ala Ser Ser Ile Ala Lys Ala Leu Asn Arg Lys Phe
 1 5 10 15
 Ile Arg Ile Ser Leu Gly Gly Val Lys Asp Glu Ala Asp Ile Arg Gly
 20 25 30

His

<210> 667
 <211> 24
 <212> PRT
 <213> Zea mays

<400> 667
 Lys Ala Leu Asn Arg Lys Phe Ile Arg Ile Ser Leu Gly Gly Val Lys
 1 5 10 15
 Asp Glu Ala Asp Ile Arg Gly His
 20

<210> 668
 <211> 19
 <212> PRT
 <213> Zea mays

SEQ.List.txt

<400> 668

Lys Phe Ile Arg Ile Ser Leu Gly Gly Val Lys Asp Glu Ala Asp Ile
1 5 10 15

Arg Gly His

<210> 669

<211> 37

<212> PRT

<213> Zea mays

<400> 669

Lys Val Arg Leu Ser Lys Ala Thr Glu Leu Val Asp Arg His Leu Gln
1 5 10 15

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

Ser Lys Ser Gln Lys
35

<210> 670

<211> 24

<212> PRT

<213> Zea mays

<400> 670

His Leu Gln Ser Ile Leu Val Ala Glu Lys Ile Thr Gln Lys Val Glu
1 5 10 15

Gly Gln Leu Ser Lys Ser Gln Lys
20

<210> 671

<211> 14

<212> PRT

<213> Zea mays

<400> 671

Lys Val Arg Leu Ser Lys Ala Thr Glu Leu Val Asp Arg His
1 5 10

<210> 672

SEQ.List.txt

<211> 34
 <212> PRT
 <213> Zea mays

<400> 672

Lys Val Gly Gly Ser Ala Val Glu Ser Ser Lys Gln Asp Thr Lys Asn
 1 5 10 15

Gly Lys Glu Pro Ile His Trp His Ser Lys Gly Val Ala Ala Arg Ala
 20 25 30

Leu His

<210> 673
 <211> 24
 <212> PRT
 <213> Zea mays

<400> 673

Lys Val Gly Gly Ser Ala Val Glu Ser Ser Lys Gln Asp Thr Lys Asn
 1 5 10 15

Gly Lys Glu Pro Ile His Trp His
 20

<210> 674
 <211> 22
 <212> PRT
 <213> Zea mays

<400> 674

Lys Val Gly Gly Ser Ala Val Glu Ser Ser Lys Gln Asp Thr Lys Asn
 1 5 10 15

Gly Lys Glu Pro Ile His
 20

<210> 675
 <211> 24
 <212> PRT
 <213> Zea mays

<400> 675

Lys Gln Asp Thr Lys Asn Gly Lys Glu Pro Ile His Trp His Ser Lys

SEQ.List.txt

1 5 10 15
 Gly Val Ala Ala Arg Ala Leu His
 20

<210> 676
 <211> 12
 <212> PRT
 <213> Zea mays

<400> 676
 Lys Gln Asp Thr Lys Asn Gly Lys Glu Pro Ile His
 1 5 10

<210> 677
 <211> 33
 <212> PRT
 <213> Zea mays

<400> 677
 His Arg Asp Leu Arg Arg Ala Arg Ala Ala Ala Leu Asn Ile Val Pro
 1 5 10 15
 Thr Ser Thr Gly Ala Ala Lys Ala Val Ser Leu Val Leu Pro Asn Leu
 20 25 30

Lys

<210> 678
 <211> 18
 <212> PRT
 <213> Zea mays

<400> 678
 Lys Val Leu Asp Gln Lys Phe Gly Ile Ile Lys Gly Thr Met Thr Thr
 1 5 10 15

Thr His

<210> 679
 <211> 16
 <212> PRT

SEQ.List.txt

<213> Zea mays

<400> 679

His Ile Gln Ala Gly Ala Lys Lys Val Leu Ile Thr Ala Pro Gly Lys
1 5 10 15

<210> 680

<211> 28

<212> PRT

<213> Zea mays

<400> 680

His Gly Arg Gly Asp Ala Ser Pro Leu Asp Val Ile Ala Ile Asn Asp
1 5 10 15

Thr Gly Gly Val Lys Gln Ala Ser His Leu Leu Lys
20 25

<210> 681

<211> 51

<212> PRT

<213> Zea mays

<400> 681

Lys Val Arg Arg Val Leu Ser Lys Asp Tyr Ser Ser Leu Lys Gln Leu
1 5 10 15

Met Thr Leu Met Met Asp Asp Asp Ile Ser Lys His Leu Gln Ile Ile
20 25 30

Glu Ser Gly Leu Glu Glu Arg Glu Asp Lys Val Trp Met Lys Glu Asn
35 40 45

Ile Ile Lys
50

<210> 682

<211> 28

<212> PRT

<213> Zea mays

<400> 682

Lys Val Arg Arg Val Leu Ser Lys Asp Tyr Ser Ser Leu Lys Gln Leu
1 5 10 15

SEQ.List.txt

Met Thr Leu Met Met Asp Asp Asp Ile Ser Lys His
20 25

<210> 683
<211> 24
<212> PRT
<213> Zea mays

<400> 683
His Leu Gln Ile Ile Glu Ser Gly Leu Glu Glu Arg Glu Asp Lys Val
1 5 10 15

Trp Met Lys Glu Asn Ile Ile Lys
20

<210> 684
<211> 17
<212> PRT
<213> Zea mays

<400> 684
His Asp Leu Arg Glu Asn Ile Ile Met Lys Ala Asp Asp Leu Ala Ser
1 5 10 15

Lys

<210> 685
<211> 18
<212> PRT
<213> Zea mays

<400> 685
His Val Gln Asn Leu Glu Asn Val Ile Gly Lys Asp Glu Ala Leu Ala
1 5 10 15

Ser Lys

<210> 686
<211> 21
<212> PRT
<213> Zea mays

SEQ.List.txt

<400> 686

Lys Lys Gln Gly Tyr Glu Leu Arg Gln Leu Lys Asp Leu Asn Glu Leu
1 5 10 15

Gly Gly Ser Leu His
20

<210> 687

<211> 20

<212> PRT

<213> Zea mays

<400> 687

Lys Gln Gly Tyr Glu Leu Arg Gln Leu Lys Asp Leu Asn Glu Leu Gly
1 5 10 15

Gly Ser Leu His
20

<210> 688

<211> 28

<212> PRT

<213> Zea mays

<400> 688

Lys Leu Tyr Leu Lys Ser Arg Leu Lys Glu Leu Ile Leu Glu Trp Ser
1 5 10 15

Ser Glu Asn Gly Met Asp Ala Met Asn Ile Leu His
20 25

<210> 689

<211> 39

<212> PRT

<213> Zea mays

<400> 689

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

Lys Val Cys Asn Leu Ser Lys Leu Arg Tyr Leu Arg Gly Tyr Lys Asp
20 25 30

Gln Ile Pro Asn Ile Gly Lys
35

SEQ.List.txt

<210> 690
 <211> 31
 <212> PRT
 <213> Zea mays

<400> 690
 His Leu Gln Leu Leu Gln Leu Asn Gly Met Val Glu Arg Leu Pro Asn
 1 5 10 15
 Lys Val Cys Asn Leu Ser Lys Leu Arg Tyr Leu Arg Gly Tyr Lys
 20 25 30

<210> 691
 <211> 23
 <212> PRT
 <213> Zea mays

<400> 691
 His Leu Gln Leu Leu Gln Leu Asn Gly Met Val Glu Arg Leu Pro Asn
 1 5 10 15
 Lys Val Cys Asn Leu Ser Lys
 20

<210> 692
 <211> 14
 <212> PRT
 <213> Zea mays

<400> 692
 His Asn Ser Asn Lys Leu Pro Lys Ser Val Gly Glu Leu Lys
 1 5 10

<210> 693
 <211> 11
 <212> PRT
 <213> Zea mays

<400> 693
 Lys Leu Pro Lys Ser Val Gly Glu Leu Lys His
 1 5 10

SEQ.List.txt

<210> 694
 <211> 18
 <212> PRT
 <213> Zea mays

<400> 694
 His Leu Ser Val Arg Val Glu Ser Met Gln Lys His Lys Glu Ile Ile
 1 5 10 15

Tyr Lys

<210> 695
 <211> 8
 <212> PRT
 <213> Zea mays

<400> 695
 Lys His Lys Glu Ile Ile Tyr Lys
 1 5

<210> 696
 <211> 23
 <212> PRT
 <213> Zea mays

<400> 696
 Lys Leu Arg Asp Ile Leu Gln Glu Ser Gln Lys Phe Leu Leu Val Leu
 1 5 10 15

Asp Leu Ala Leu Phe Lys His
 20

<210> 697
 <211> 46
 <212> PRT
 <213> Zea mays

<400> 697
 His Ala Phe Ser Gly Ala Glu Ile Lys Asp Gln Leu Leu Arg Met Lys
 1 5 10 15

Leu Gln Asp Thr Ala Glu Cys Ile Ala Lys Arg Leu Gly Gln Cys Pro
 20 25 30

SEQ.List.txt

Leu Ala Ala Lys Val Leu Gly Ser Arg Met Cys Arg Arg Lys
 35 40 45

<210> 698
 <211> 16
 <212> PRT
 <213> Zea mays

<400> 698
 His Ala Phe Ser Gly Ala Glu Ile Lys Asp Gln Leu Leu Arg Met Lys
 1 5 10 15

<210> 699
 <211> 47
 <212> PRT
 <213> Zea mays

<400> 699
 Lys Leu Gln Asp Thr Ala Glu Glu Ile Ala Lys Arg Leu Gly Gln Cys
 1 5 10 15

Pro Leu Ala Ala Lys Val Leu Gly Ser Arg Met Cys Arg Arg Lys Asp
 20 25 30

Ile Ala Glu Trp Lys Ala Ala Asp Val Trp Phe Glu Lys Ser His
 35 40 45

<210> 700
 <211> 27
 <212> PRT
 <213> Zea mays

<400> 700
 Lys Val Leu Gly Ser Arg Met Cys Arg Arg Lys Asp Ile Ala Glu Trp
 1 5 10 15

Lys Ala Ala Asp Val Trp Phe Glu Lys Ser His
 20 25

<210> 701
 <211> 17
 <212> PRT
 <213> Zea mays

SEQ.List.txt

<400> 701

Lys Asp Ile Ala Glu Trp Lys Ala Ala Asp Val Trp Phe Glu Lys Ser
1 5 10 15

His

<210> 702

<211> 11

<212> PRT

<213> Zea mays

<400> 702

Lys Ala Ala Asp Val Trp Phe Glu Lys Ser His
1 5 10

<210> 703

<211> 40

<212> PRT

<213> Zea mays

<400> 703

His Val Pro Thr Thr Thr Ser Leu Pro Thr Ser Lys Val Phe Gly Arg
1 5 10 15

Asn Ser Asp Arg Asp Arg Ile Val Lys Phe Leu Leu Gly Lys Thr Thr
20 25 30

Thr Ala Glu Ala Ser Ser Thr Lys
35 40

<210> 704

<211> 18

<212> PRT

<213> Zea mays

<400> 704

Lys Ala Ile Leu Thr Glu Ala Lys Gln Leu Arg Asp Leu Leu Gly Leu
1 5 10 15

Pro His

<210> 705

SEQ.List.txt

<211> 29

<212> PRT

<213> Zea mays

<400> 705

Lys Ala Lys Ala Lys Ser Gly Lys Gly Pro Leu Leu Arg Glu Asp Glu
1 5 10 15

Ser Ser Ser Thr Ala Thr Thr Val Met Lys Pro Phe His
20 25

<210> 706

<211> 29

<212> PRT

<213> Zea mays

<400> 706

Lys Ser Pro His Arg Gly Lys Leu Glu Ser Trp Leu Arg Arg Leu Lys
1 5 10 15

Glu Ala Phe Tyr Asp Ala Glu Asp Leu Leu Asp Glu His
20 25

<210> 707

<211> 16

<212> PRT

<213> Zea mays

<400> 707

Lys Ser Pro His Arg Gly Lys Leu Glu Ser Trp Leu Arg Arg Leu Lys
1 5 10 15

<210> 708

<211> 13

<212> PRT

<213> Zea mays

<400> 708

His Arg Gly Lys Leu Glu Ser Trp Leu Arg Arg Leu Lys
1 5 10

<210> 709

<211> 7

<212> PRT

<213> Zea mays

<400> 709

Lys Ser Pro His Arg Gly Lys
1 5

<210> 710

<211> 8

<212> PRT

<213> Zea mays

<400> 710

Lys Gln Ala Ser His Leu Leu Lys
1 5

<210> 711

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Replikin formula
sequence

<220>

<221> MOD_RES

<222> (1)

<223> Lys, His, Arg, Tyr, Ile, Ser, Val, Ala, Phe, Pro or Gln

<220>

<221> MOD_RES

<222> (3)

<223> Ser, Cys or Trp

<220>

<221> MOD_RES

<222> (4)

<223> Tyr, Phe or Pro

<220>

<221> MOD_RES

<222> (7)

<223> Leu, Gln, Ser, Ala or Arg

<220>

<221> MOD_RES

<222> (8)
<223> Val, Ile or Leu

<220>
<221> MOD_RES
<222> (10)
<223> Phe or Leu

<220>
<221> MOD_RES
<222> (11)
<223> Gln, His, Ile, Leu, Met or Asn

<220>
<221> MOD_RES
<222> (12)
<223> Lys, Thr, Asn, Met or Ser

<220>
<221> MOD_RES
<222> (14)
<223> Gly, Ala, Gln or Arg

<220>
<221> MOD_RES
<222> (16)
<223> Gly, Ala, Val or Ser

<220>
<221> MOD_RES
<222> (17)
<223> Ile or Leu

<220>
<221> MOD_RES
<222> (18)
<223> Ser or Tyr

<220>
<221> MOD_RES
<222> (19)
<223> Tyr or His

<220>
<221> MOD_RES
<222> (20)
<223> Gly or Gln

SEQ.List.txt

<400> 711

Xaa Cys Xaa Xaa His Cys Xaa Xaa Cys Xaa Xaa Xaa Lys Xaa Leu Xaa /
 1 5 10 15

Xaa Xaa Xaa Xaa Arg Lys Lys
 20