SEQUENCE LISTING

<110> 3B Pharmaceuticals GmbH

<120> PEPTIDES AND METHODS OF USE

<130> SG6634A

<150> 61/946,103
<151> 2014-02-28

<160> 2924

<170> PatentIn version 3.5

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Arg Ser Phe Thr
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<400> 155

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Arg Glu Ser Thr
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<400> 156

Thr Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Ser
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Arg

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<211> 14
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<223> C-terminal amidation

<400> 158

Thr Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp
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<400> 159

Thr Gly His Val Ser Ala Gly Trp Tyr Asp Tyr
1 5 10

<210> 160
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<400> 160

Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe
1 5 10 15

Thr

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<400> 161

Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe Thr
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Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe Thr
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Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg
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Gly Trp Tyr Asp Tyr Asn Phe Asp
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<400> 165

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Arg Glu Phe Thr
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Arg Glu Phe

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<400> 167

Thr Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu

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Thr Ala His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp Asp Tyr
1 5 10 15

Arg Glu Phe Thr
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Thr Ala His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp Leu Tyr
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Arg Glu Phe Thr
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Gly Ala His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Thr
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Gly Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp Leu Tyr
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Arg Glu Phe Thr
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Arg Glu Phe Thr
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Gly Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ala Asp His Tyr
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Arg Glu Phe Thr
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<223> D-Ser

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Arg Glu Phe Thr
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<223> D-Ala

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<400> 175

Thr Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr
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<223> D-Ala

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<400> 176

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Arg Glu Phe Thr
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<223> D-Trp

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<400> 177

Thr Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr
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<400> 178

Thr Gly His Val Glu Val Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Thr
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<223>  N-terminal Biotinyl

<220>
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<223>  Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-succinamic acid (ttds)

<220>
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<223>  C-terminal amidation

<400>  179

Xaa Thr Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ala Asp His
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Tyr Arg Glu Phe Thr
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<210>  180
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<223>  N-terminal Biotinyl

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<220>
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<400>  180

Xaa Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
1               5                   10                  15

Tyr Arg Glu Phe Thr

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<212> PRT
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<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-succinamic acid (ttds)

<220>
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<222> (21)..(21)
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<400> 181

Xaa Thr Pro His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
1 5 10 15

Tyr Arg Glu Phe Thr
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<212> PRT
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<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-succinamic acid (ttds)

<220>
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<400> 182

Xaa Thr Gly His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
1 5 10 15

Tyr Arg Glu Phe
20

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<223> MODIFIED CYS

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<400> 183

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Thr Cys
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<212> PRT
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<222> (1)..(1)
<223> Covalently bound to 400Mal-PEG

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<400> 184

Cys Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
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Tyr Arg Glu Phe Thr
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<212> PRT
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<223> N-terminal acetylation

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<222> (4)..(4)
<223> Xaa is tert-Leu (Tle)

<220>
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<400> 185

Thr Gly Leu Xaa Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr
20

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<223> Xaa is (S)-Diaminopropionic acid (Dap)

<220>
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<222> (20)..(20)
<223> C-terminal amidation

<400> 186

Thr Gly Leu Val Xaa Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Thr
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<212> PRT
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<222> (6)..(6)
<223> Xaa is 2-amino-isobutyric acid (Aib)

<220>
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<222> (20)..(20)
<223> C-terminal amidation

<400> 187

Thr Gly Leu Val Ser Xaa Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr
20

<210> 188
<211> 20
<212> PRT
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<223> N-terminal acetylation

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<222> (6)..(6)
<223> Xaa is tert-Leu (Tle)

<220>
<221> MISC_FEATURE
<222> (20)..(20)
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<400> 188

Thr Gly Leu Val Ser Xaa Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr
20

<210> 189

<211> 20
<212> PRT
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<223> Xaa is 2-amino-isobutyric acid (Aib)

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<222> (20)..(20)
<223> C-terminal amidation

<400> 189

Thr Gly Leu Val Ser Ala Xaa Trp Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Thr
20

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<223> Xaa is N-methyl-Gly (Nmg)

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Thr Gly Leu Val Ser Ala Xaa Trp Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Thr
20

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<212> PRT
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<222> (8)..(8)
<223> Xaa is L-3-Benzothienylalanine (Bta)

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<223> C-terminal amidation

<400> 191

Thr Gly Leu Val Ser Ala Gly Xaa Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr
20

<210> 192
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<212> PRT
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<223> N-terminal acetylation

<220>
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<222> (8)..(8)
<223> Xaa is 1-naphtylalanine (1Ni)

<220>
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<222> (20)..(20)
<223> C-terminal amidation

<400> 192

Thr Gly Leu Val Ser Ala Gly Xaa Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr
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<212> PRT

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<223> N-terminal acetylation

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<223> Xaa is 2-naphthylalanine (2Ni)

<220>
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<223> C-terminal amidation

<400> 193

Thr Gly Leu Val Ser Ala Gly Xaa Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Thr
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<212> PRT
<213> Artificial Sequence

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<223> D-Tyr

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<400> 194

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Arg Glu Phe Thr
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<210> 195
<211> 20
<212> PRT
<213> Artificial Sequence

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Arg Glu Phe Thr
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<210>  196
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<223>  N-terminal acetylation

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<223>  D-Tyr

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<400>  196

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1               5                   10                  15

Arg Glu Phe Thr
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<222> (12)..(12)
<223> Xaa is Asn

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<400> 197

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
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Arg Glu Phe Thr
20

<210> 198
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<212> PRT
<213> Artificial Sequence

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<223> D-Ala

<220>
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<400> 198

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ala Asp His Tyr
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Arg Glu Phe Thr
20

<210> 199
<211> 22
<212> PRT
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<223> Synthetic peptide

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<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-succinamic acid (ttds)

<220>
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<222> (22)..(22)
<223> Covelently bound to biotin via epsilon amino group

<220>
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<222> (22)..(22)
<223> C-terminal amidation

<400> 199

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<222> (1)..(1)
<223> N-terminal acetylation

<220>
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<222> (15)..(15)
<223> Xaa is tert-Leu

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 451

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp Xaa Tyr
1 5 10 15

Arg Glu Phe Thr
20

<210> 452
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (17)..(17)
<223> Xaa is norleucine (Nle)

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 452

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Xaa Glu Phe Thr
20

<210> 453
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 453

Tyr Gly Leu Val Glu Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Thr Tyr
1 5 10 15

Met Glu Phe Thr
20

<210> 454
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (4)..(4)
<223>  Xaa is Tert-Leu (Tle)

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  454

Thr Gly Leu Xaa Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp Thr Tyr
1               5                   10                  15

Arg Glu Phe Thr
            20

<210>  455
<211>  20
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<220>
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<220>
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<223>  N-terminal acetylation

<220>
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<222>  (4)..(4)
<223>  Xaa is tert-Leu (Tle)

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  455

Thr Gly Leu Xaa Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1               5                   10                  15

Met Glu Phe Thr
            20

<210>  456
<211>  20
<212>  PRT
<213>  Artificial Sequence

<220>

<223> Synthetic peptide

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
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<222> (4)..(4)
<223> Xaa tert-Leu (Tle)

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 456

Thr Gly Leu Xaa Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp Thr Tyr
1 5 10 15

Met Glu Phe Thr
20

<210> 457
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is 2-amino-3-(4-benzoylphenyl)-propanoic acid (Bpa)

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 457

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr Xaa
20

<210> 458
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 458

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr Cys
20

<210> 459
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 459

Cys Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
1 5 10 15

Tyr Arg Glu Phe Thr
20

<210> 460
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> N-terminal acetylation

<220>
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<222> (1)..(1)
<223> Xaa is 2-amino-3-(4-benzoylphenyl)-propanoic acid (Bpa)

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 460

Xaa Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
1 5 10 15

Tyr Arg Glu Phe Thr
20

<210> 461
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 461

Met Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr
1 5 10 15

Tyr Tyr Glu Phe Glu
20

<210> 462
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 462

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 463
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 463

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asp Asp Lys Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 464
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 464

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Ile Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 465
<211> 20
<212> PRT
<213> Artificial Sequence

<220>

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<220>
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<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 465

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

Phe Glu Phe Tyr
20

<210> 466
<211> 20
<212> PRT
<213> Artificial Sequence

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<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 466

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

Glu Glu Phe Lys
20

<210> 467
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)

<223> C-terminal amidation

<400> 467

Tyr Gly Ile Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Tyr
20

<210> 468
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 468

Glu Gly Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 469
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 469

Glu Ser Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Phe
20

<210> 470
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 470

Met Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr
1 5 10 15

Tyr Tyr Glu Phe Glu
20

<210> 471
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Covalently bound to 4-azido-2,3,5,6-tetrafluorobenzoic acid (Atf) which is covalently bound to biotin

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 471

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr Cys
20

<210> 472
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Covalently bound to 2-amino ethenethiol which is bound to carboxyl group of Lys; Epsilon amino of Lys bound to biotin via linker; Alpha amine of Lys bound to 4-azido-2,3,5,6-tetrafluorobenzoic acid (Atf) via linker

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 472

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr Cys
20

<210> 473
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Cys (Atf-Bio)

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 473

Cys Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
1 5 10 15

Tyr Arg Glu Phe Thr
20

<210> 474
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Cys(Atf-LC-Bio)

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 474

Cys Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
1 5 10 15

Tyr Arg Glu Phe Thr
20

<210> 475
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is 2-amino-3-(4-benzoylphenyl)-propanoic acid (Bpa)

<220>
<221> MISC_FEATURE
<222> (22)..(22)
<223> Covelently bound to biotin via epsilon amino group

<220>
<221> MISC_FEATURE
<222> (22)..(22)
<223> C-terminal amidation

<400> 475

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr Xaa Lys
20

<210> 476
<211> 21
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is 2-amino-3-(4-benzoylphenyl)-propanoic acid (Bpa)

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 476

Xaa Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His
1 5 10 15

Tyr Arg Glu Phe Thr
20

<210> 477
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 477

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Asp
20

<210> 478
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 478

Glu Tyr Tyr Val Thr Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 479
<211> 20
<212> PRT
<213> Artificial Sequence

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<222> (1)..(1)
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<220>
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<222> (20)..(20)
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<400> 479

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 480
<211> 20
<212> PRT
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<220>
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<223> N-terminal acetylation

<220>

<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 480

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ala Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 481
<211> 20
<212> PRT
<213> Artificial Sequence

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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 481

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Met Thr Asp Thr Tyr
1 5 10 15

Thr Glu Phe Glu
20

<210> 482
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 482

Glu Tyr Tyr Val Glu Ala Gly Trp Tyr Glu Tyr Asn Thr Asp Asn Tyr
1 5 10 15

Tyr Pro Phe Glu

20

<210> 483
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 483

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

Tyr Glu Phe Ile
20

<210> 484
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 484

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Arg Tyr
1 5 10 15

Tyr Glu Phe Tyr
20

<210> 485
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<223> N-terminal acetylation

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<222> (20)..(20)
<223> C-terminal amidation

<400> 485

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Thr Asn Asn Asp Arg Tyr
1 5 10 15

Tyr Glu Phe Ile
20

<210> 486
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<212> PRT
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<222> (1)..(1)
<223> N-terminal acetylation

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<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 486

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Ile Tyr
1 5 10 15

Tyr Glu Phe Ile
20

<210> 487
<211> 20
<212> PRT
<213> Artificial Sequence

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<222> (20)..(20)
<223> C-terminal amidation

<400> 487

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Ile Tyr
1 5 10 15

Leu Glu Phe Glu
20

<210> 488
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<212> PRT
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<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 488

Glu Tyr Tyr Val Ser Ala Gly Trp His Asp Tyr Asn Lys Asp Ile Tyr
1 5 10 15

Phe Glu Phe Phe
20

<210> 489
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 489

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Thr Tyr
1 5 10 15

Asn Glu Phe Trp
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<210> 490

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

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 490

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ser Asp Thr Tyr
1 5 10 15

Gln Glu Phe Ile
20

<210> 491
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 491

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ser Asp Thr Tyr
1 5 10 15

Phe Glu Phe Ile
20

<210> 492
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)

<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 492

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Glu His Asp Thr Tyr
1 5 10 15

Leu Glu Phe Tyr
20

<210> 493
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 493

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asn Tyr Glu Glu Asp Ser Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 494
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<212> PRT
<213> Artificial Sequence

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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 494

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Tyr Asp Val Tyr
1 5 10 15

Thr Glu Phe Glu
            20

<210>  495
<211>  20
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<213>  Artificial Sequence

<220>
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<220>
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<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  495

Glu Gln Tyr Val Ser Ala Gly Trp Tyr Gly Tyr Asn Thr Asp Thr Tyr
1               5                   10                  15

Tyr Glu Phe Asp
            20

<210>  496
<211>  20
<212>  PRT
<213>  Artificial Sequence

<220>
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<220>
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<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  496

Thr Tyr Tyr Val Ser Ala Gly Trp Tyr Gly Tyr Asn Asn Asp Arg Tyr
1               5                   10                  15

Tyr Glu Phe Tyr
            20

<210>  497
<211>  20
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide

<220>
<221>  MISC_FEATURE
<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  497

Gln Tyr Tyr Val Val Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Ser Tyr
1               5                   10                  15

Tyr Glu Phe Asp
            20

<210>  498
<211>  20
<212>  PRT
<213>  Artificial Sequence

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<223>  Synthetic peptide

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Glu Glu Tyr Val Ser Ala Gly Trp Tyr Asp Met Asn Arg Asp Thr Tyr
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Thr Glu Phe Tyr
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<400> 499

Glu Tyr Thr Val Ser Ala Gly Trp Tyr Asn Tyr Asn Ala Asp Glu Tyr
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Tyr Glu Phe Glu
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<400> 500

Glu Tyr Thr Ile Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Met Tyr
1 5 10 15

Tyr Glu Phe Val
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Glu Tyr Thr Ala Ser Ala Gly Trp Tyr Asp Tyr Asn Ser Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 502

Tyr Gly Ile Val Glu Ala Gly Trp Tyr Glu Tyr Asn Thr Asp Glu Tyr
1 5 10 15

Ile Glu Phe Trp
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Tyr Gly Ile Val Ser Ala Gly Trp Tyr Glu Tyr Asn Thr Asp Ile Tyr
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Glu Glu Phe Trp
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Phe Glu Phe Tyr
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<400> 505

Glu Gly Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Lys Asp Ile Tyr
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Leu Glu Phe Glu
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Phe Glu Phe Ala
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Glu Ser Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ile Asp Ala Tyr
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Tyr Glu Phe Tyr
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Tyr Glu Phe Tyr
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Tyr Glu Phe Lys
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Leu Glu Phe Tyr
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Tyr Glu Phe Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Phe
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<400>  514

Glu Ser Ile Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Thr
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Phe Gly Ile Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Pro Tyr
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Phe Gly Ile Ile Ser Ala Gly Trp Tyr Asp Tyr Asn Glu Asp Ala Tyr
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Ser Glu Phe Tyr
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<400> 517

Phe Glu Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Tyr
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<400> 518

Phe Glu Tyr Val Ile Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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His Glu Phe Asn
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<400> 519

Ser Ala Thr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Lys Asp Val Tyr
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Phe Glu Phe Glu
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<400> 520

Glu Val Ile Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Ile Tyr
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Tyr Glu Phe Trp
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Glu Val His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Thr Tyr
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Tyr Glu Phe Gly
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Glu Val Glu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asp Asp Lys Tyr
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Tyr Glu Phe Gly
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Glu Tyr Glu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Val Tyr
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Asn Glu Phe Tyr
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Glu Tyr Phe Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ala Asp Ile Tyr
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Tyr Glu Phe Asp
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<400> 525

Tyr Asn Ile Val Ser Ala Gly Trp Tyr Asp Tyr Asn Lys Asp Thr Tyr
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Tyr Glu Phe Phe
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Tyr Asn Glu Val Ser Ala Gly Trp Tyr Asp Met Asn Glu Asp Thr Tyr
1  5  10  15

Tyr Glu Phe Tyr
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Tyr Val Glu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1  5  10  15

Ser Glu Phe Trp
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Glu Val Glu Val Ser Ala Gly Trp Tyr Glu Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Trp
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Ala Ile Tyr Val Thr Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Thr
20

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His Ile Tyr Val Thr Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

His Glu Phe Glu
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<400> 531

Arg Tyr Ile Val Ser Ala Gly Trp Tyr Asp Ile Ile Gln Asp Thr Tyr
1 5 10 15

Phe Glu Phe Tyr
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<400> 532

Asn Tyr Ile Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Glu Tyr
1 5 10 15

Ile Glu Phe Tyr
            20

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1               5                   10                  15

Tyr Glu Phe Trp
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Asp Val Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Glu Asp Thr Tyr
1               5                   10                  15

Tyr Glu Phe Ser
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1 5 10 15

Glu Glu Phe Tyr
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Asn Met Glu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ser Asp Thr Tyr
1 5 10 15

His Glu Phe Trp
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Glu Ala Thr Val Ser Ile Gly Trp Tyr Asp Tyr Asn Lys Asp Glu Tyr
1 5 10 15

Tyr Glu Phe Tyr
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Glu Phe Ile Val Ser Ala Gly Trp Tyr Asp Tyr Asn Lys Asp Thr Tyr
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Ile Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Trp
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Val Glu Phe Trp
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Tyr Glu Phe Thr
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<400> 543

Asp Asn Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Tyr
20

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Lys Met His Val Ser Ile Gly Trp Tyr Asp Tyr Asn Asn Asp Ile Tyr

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Tyr Glu Phe Tyr
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Lys Val Glu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Lys Asp Val Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Thr
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Tyr Glu Phe Glu
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Ile Thr His Val Thr Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1               5                   10                  15

Tyr Glu Phe Ile
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<221>  MISC_FEATURE
<222>  (1)..(1)
<223>  N-terminal acetylation

<220>

<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 549

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

Tyr Glu Phe Trp
20

<210> 550
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 550

Val Phe Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asp Asp Lys Tyr
1 5 10 15

Tyr Glu Phe Trp
20

<210> 551
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 551

Ala Tyr Ile Val Glu Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Glu Glu Phe Trp

20

<210> 552
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 552

His Trp Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Glu Asp Lys Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 553
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 553

His Tyr Asn Val Ser Ala Gly Trp Tyr Asp Tyr Asn Asn Asp Glu Tyr
1 5 10 15

Phe Glu Phe Tyr
20

<210> 554
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 554

Trp Tyr Glu Val Glu Ile Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Gln Glu Phe Tyr
20

<210> 555
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 555

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

Phe Glu Phe Tyr
20

<210> 556
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 556

Asn Phe Thr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Lys Asp Glu Tyr
1 5 10 15

Tyr Glu Phe Tyr
20

<210> 557
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 557

Ser Tyr Glu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Gln
20

<210> 558
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> C-terminal amidation

<400> 558

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe

<210> 559

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

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 559

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Asn
20

<210> 560
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 560

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Thr
20

<210> 561
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)

<223> N-terminal acetylation

<220>
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<222> (21)..(21)
<223> Covalently bound to fluorescent dye (Cy5-Dye) via maleimide coupled to thiol

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 561

Thr Gly Leu Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr
1 5 10 15

Arg Glu Phe Thr Cys
20

<210> 562
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal biotinyl

<220>
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<222> (1)..(1)
<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-succinamic acid (ttds)

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 562

Xaa Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr
1 5 10 15

Tyr Tyr Glu Phe Glu
20

<210> 563
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)

<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa is tert-Leu (Tle)

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 563

Glu Tyr Tyr Xaa Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 564
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Covalently bound to 400Mal-PEG

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 564

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Cys
20

<210> 565
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 565

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Cys
20

<210> 566
<211> 21
<212> PRT
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<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
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<222> (21)..(21)
<223> N-ethylmaleiimido Cys

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 566

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Cys
20

<210> 567
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Maleiimide at each end of a 40kDa 4-brached PEG reacts with
C-terminal Cysteine on each of four peptides identical to this

sequence to form central tetravalent core

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 567

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Cys
20

<210> 568
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Cys(Me-400MA)

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 568

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

Tyr Glu Phe Lys Cys
20

<210> 569
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 569

Tyr Ala Glu Tyr Gly Tyr Ser Val Trp Asp Glu Glu Tyr Asn Tyr Thr
1 5 10 15

Tyr Thr Phe Asp
20

<210> 570
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 570

Tyr Trp Tyr Thr Asp Glu Asp Val Tyr Glu Phe Ser Tyr Asn Tyr Ala
1 5 10 15

Thr Tyr Glu Gly
20

<210> 571
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Epsilon-(Acetyl)-L-Lys

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 571

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys
            20

<210>  572
<211>  22
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide

<220>
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<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (1)..(1)
<223>  Xaa is 6-aminohexanoic acid (Ahx)

<220>
<221>  MISC_FEATURE
<222>  (22)..(22)
<223>  Epsilon-(Acetyl)-L-Lys

<220>
<221>  MISC_FEATURE
<222>  (22)..(22)
<223>  C-terminal amidation

<400>  572

Xaa Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr
1               5                   10                  15

Tyr Tyr Glu Phe Glu Lys
            20

<210>  573
<211>  21
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide

<220>
<221>  MISC_FEATURE
<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (21)..(21)
<223>  Covalently bound to FeBABE

<220>
<221>  MISC_FEATURE
<222>  (21)..(21)
<223>  C-terminal amidation

<400>  573

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Cys
20

<210> 574
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Cys(FeBABE)

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 574

Tyr Ala Glu Tyr Gly Tyr Ser Val Trp Asp Glu Glu Tyr Asn Tyr Thr
1 5 10 15

Tyr Thr Phe Asp Cys
20

<210> 575
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Covalently bound to Mal-Ttds

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 575

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys
20

<210> 576
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 576

Ala Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 577
<211> 20
<212> PRT
<213> Artificial Sequence

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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 577

Glu Ala Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 578
<211> 20
<212> PRT

<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 578

Glu Tyr Ala Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 579
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 579

Glu Tyr Tyr Ala Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 580
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
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<222>  (20)..(20)
<223>  C-terminal amidation

<400>  580

Glu Tyr Tyr Val Ala Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1               5                   10                  15


Tyr Glu Phe Glu
            20


<210>  581
<211>  20
<212>  PRT
<213>  Artificial Sequence

<220>
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<220>
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<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  581

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


Tyr Glu Phe Glu
            20


<210>  582
<211>  20
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide


<220>
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<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  582

Glu Tyr Tyr Val Ser Ala Gly Ala Tyr Asp Tyr Asn Thr Asp Thr Tyr
1               5                   10                  15

Tyr Glu Phe Glu
            20


<210>  583
<211>  20
<212>  PRT
<213>  Artificial Sequence

<220>
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<220>
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<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  583

Glu Tyr Tyr Val Ser Ala Gly Trp Ala Asp Tyr Asn Thr Asp Thr Tyr
1               5                   10                  15


Tyr Glu Phe Glu
            20


<210>  584
<211>  20
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide


<220>
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<222>  (1)..(1)
<223>  N-terminal acetylation

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  584

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Ala Tyr Asn Thr Asp Thr Tyr
1               5                   10                  15


Tyr Glu Phe Glu
            20


<210>  585
<211>  20
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic peptide

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 585

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Ala Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 586
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 586

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Ala Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 587
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 587

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Ala Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 588
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 588

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Ala Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 589
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 589

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Ala
1 5 10 15

Tyr Glu Phe Glu
20

<210> 590
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 590

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Ala Glu Phe Glu
20

<210> 591
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide


<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 591

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Ala Phe Glu
20

<210> 592
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide


<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 592

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Ala Glu
20

<210> 593
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 593

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Ala
20

<210> 594
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
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<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 594

Cys Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr

1 5 10 15

Tyr Glu Phe Glu
20

<210> 595
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 595

Glu Cys Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
20

<210> 596
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal acetylation

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<400> 596

Glu Tyr Cys Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Asp
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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<400> 648

Phe Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 649

Glu Phe Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<210> 650
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<400> 650

Glu Tyr Phe Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
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<400> 651

Glu Tyr Tyr Phe Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
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<210> 652
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<400> 652

Glu Tyr Tyr Val Phe Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 653

Glu Tyr Tyr Val Ser Phe Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<210> 654
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<400> 654

Glu Tyr Tyr Val Ser Ala Phe Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Phe Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Phe Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Phe Glu Phe Glu
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Tyr Phe Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Phe
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<400>  667

Gly Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Gly Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 669

Glu Tyr Tyr Gly Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 670

Glu Tyr Tyr Val Gly Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu

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<400> 671

Glu Tyr Tyr Val Ser Gly Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Gly Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Gly Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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<400> 675

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Gly Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Gly Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Gly Asp Thr Tyr
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Tyr Glu Phe Glu
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<210> 678

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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Gly Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Gly Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Gly Glu Phe Glu
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<400> 682

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Tyr Gly Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Gly Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Gly
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His Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu His Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 687

Glu Tyr His Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 688

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

Tyr Glu Phe Glu
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Glu Tyr Tyr Val His Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 690

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

Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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<400> 692

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1 5 10 15

Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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<400> 697

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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr His Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu His Glu
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Tyr Glu Phe His
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Ile Glu Phe Glu
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Tyr Ile Phe Glu
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Tyr Glu Ile Glu
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Tyr Glu Phe Ile
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Tyr Glu Phe Glu
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<400> 726

Glu Lys Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu

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Tyr Glu Phe Glu
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Lys Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Lys Phe Glu
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Tyr Glu Lys Glu
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Tyr Glu Phe Lys
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Leu Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Leu Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Leu Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Leu Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Leu Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Leu Phe Glu
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Tyr Glu Leu Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Leu
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Met Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Met Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Met Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Met Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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1               5                   10                  15

Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Met
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Met Glu Phe Glu
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Tyr Met Phe Glu
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Tyr Glu Met Glu
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Tyr Glu Phe Met
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Asn Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Asn Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Asn Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Pro Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu

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Tyr Pro Phe Glu
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Gln Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Gln Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Gln Phe Glu
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Tyr Glu Gln Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Gln
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Tyr Glu Phe Glu
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<400> 843

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Tyr Glu Phe Glu
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<400> 844

Glu Tyr Arg Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 845

Glu Tyr Tyr Arg Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 846

Glu Tyr Tyr Val Arg Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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<400> 850

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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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<400> 852

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Arg Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 853

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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Arg Tyr
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Tyr Glu Phe Glu
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<400>  857

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Arg
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Tyr Glu Phe Glu
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<210>  858
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<400>  858

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Arg Glu Phe Glu
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Tyr Arg Phe Glu
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Tyr Glu Arg Glu
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Tyr Glu Phe Arg
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<400> 862

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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Ser Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Ser Tyr Asn Thr Asp Thr Tyr

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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Ser Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Ser Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Ser Thr Tyr
1               5                   10                  15

Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Ser Glu Phe Glu

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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Ser Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Ser Glu
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<400> 880

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Ser
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Thr Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Thr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Thr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Thr Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Thr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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1               5                   10                  15

Tyr Glu Phe Glu
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1               5                   10                  15

Tyr Glu Phe Glu
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1               5                   10                  15

Tyr Glu Phe Glu
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Tyr Thr Phe Glu
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Tyr Glu Thr Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Val Phe Glu
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Tyr Glu Phe Val
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Tyr Glu Phe Glu
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Glu Trp Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Trp Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Trp Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Trp Glu Phe Glu
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Tyr Trp Phe Glu
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Tyr Glu Trp Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Trp
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<400> 935

Tyr Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 936

Glu Tyr Tyr Tyr Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Tyr Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 938

Glu Tyr Tyr Val Ser Tyr Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
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<400> 939

Glu Tyr Tyr Val Ser Ala Tyr Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr

1 5 10 15

Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Tyr Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Tyr Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Tyr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 944

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Tyr Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
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<400> 945

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Tyr Tyr
1 5 10 15

Tyr Glu Phe Glu
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<400> 946

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Tyr Phe Glu

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<210> 947
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<400> 947

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Tyr Glu
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<400> 948

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Tyr
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<210> 949
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<400> 949

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<210> 950
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<400> 950

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 951

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
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Tyr Glu Phe Glu
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<400> 952

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Pro Asp Tyr Asn Thr Asp Thr Tyr

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Tyr Glu Phe Glu
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Tyr Glu Phe Glu
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Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Pro Tyr
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Pro Glu Phe Glu

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Tyr Pro Phe Glu
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Glu Phe Glu

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Phe Glu

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Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr Tyr Glu Phe
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Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr Tyr
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<210> 998
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<220>
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<220>
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<220>
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<222> (11)..(11)
<223> C-terminal amidation

<400> 998

Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10

<210> 999
<211> 21
<212> PRT
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<220>
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<220>
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<220>
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<223> Side chain amino group of Lys covalently bound to human serum albumin (HSA) via reaction of Cysteine-sidechain in HSA with Mal-Ttds

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 999

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys
20

<210> 1000
<211> 21
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<220>
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<220>
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<223> N-terminus modified with 20kDa methoxy PEG via amino hexanoic acid (Ahx)

<220>
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<223> Covalently bound to 20kDa methoxy PEG

<220>
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<223> C-terminal amidation

<400> 1000

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys
20

<210> 1001
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<220>
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<223> N-terminus modified with 20kDa methoxy PEG bound to amino hexanoic acid (Ahx) via glutaric acid linker

<220>
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<222> (21)..(21)
<223> Covalently bound to 20kDa methoxy PEG via glutaric acid linker

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 1001

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys
20

<210> 1002
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<220>
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<220>
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<223> N-terminus modified with branched 20kDa PEG bound to amino hexanoix acid via glutaric acid linker

<220>
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<223> Covalently bound to branched 20kDa PEG via glutaric acid linker

<220>
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<223> C-terminal amidation

<400> 1002

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys
20

<210> 1003
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<223> Epsilon amine bound to Ttds which is bound to octadecanedioyl via gamma-Glu

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<400> 1003

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys

20

<210> 1004
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<223> Covalently bound to glutaric acid

<220>
<221> MISC_FEATURE
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<223> C-terminal amidation

<400> 1004

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys
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<210> 1005
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<212> PRT
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<220>
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<220>
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<400> 1005

Glu Tyr Tyr Val Ser Ala Gly Trp Tyr Asp Tyr Asn Thr Asp Thr Tyr
1 5 10 15

Tyr Glu Phe Glu Lys
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<210>  1006
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<212>  PRT
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<220>
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<223>  Cys residues linked via disulfide bond

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<223>  C-terminal amidation

<400>  1006

Xaa Val Leu Ser Trp Ser Val Cys Tyr Leu Gln Gln Glu Ala Tyr Arg
1               5                   10                  15

Ser Thr Thr Ile Cys
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<210>  1007
<211>  21
<212>  PRT
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<220>
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<223>  Cys residues linked via disulfide bond

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<222> (21)..(21)
<223> C-terminal amidation

<400> 1007

Xaa Arg Gly Leu Glu Glu Gln Glu Thr Cys Val Arg Val Ser Ser Arg
1 5 10 15

Val Glu Ile Cys Trp
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<210> 1008
<211> 21
<212> PRT
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<220>
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<223> C-terminal amidation

<400> 1008

Xaa Asn Trp Cys Ile Ala Ile Ser Pro Thr Met Asp Leu Cys Leu Tyr
1 5 10 15

Leu Arg Lys Glu Asn
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<210> 1009
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<212> PRT
<213> Artificial Sequence

<220>
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<223> Cys residues linked via disulfide bond

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<400> 1009

Xaa Leu Asp Asp Met Cys Tyr Ala Leu Thr Glu His Val Ser Ile Cys
1 5 10 15

Tyr Gly Ala Ala Ser
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<210> 1010
<211> 21
<212> PRT
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<400> 1010

Xaa Arg Arg Glu Met Cys His Ala Leu Gly Gly Met Val Thr Val Cys
1 5 10 15

Val Gly Trp Glu Trp
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<210> 1011
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<212> PRT
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<400>  1011

Xaa Val Phe Gln Lys Glu Glu Cys Val Leu Ala Thr Glu Ser Val Trp
1               5                   10                  15


Val Cys Trp Gly Asn
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<210>  1012
<211>  21
<212>  PRT
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<400>  1012

Xaa Trp Glu Val Cys Val Pro Leu Ser Ala Gly Gly Met Ile Cys Val
1               5                   10                  15


Gly Arg Thr Asp Arg
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<210> 1013
<211> 21
<212> PRT
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<400> 1013

Xaa Val Trp Leu Cys Leu Glu Glu Thr Gly Leu Cys Val Gln Val Leu
1 5 10 15

Gly Ala Ala Arg Phe
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<210> 1014
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<400> 1014

Xaa Ala Asn Lys Met Leu Gly Ser Ser Gly Pro Trp Tyr Trp Ile Glu
1 5 10 15

Val Gly Trp Ser Ser
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<210>  1015
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<400>  1015

Xaa Gly Gly Ser Leu Ser Ile His Ile Asp Trp Gly Trp Ala Pro Ser
1               5                   10                  15

Ser Arg Trp Thr His
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<210>  1016
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<400>  1016

Xaa Trp Arg His Gly Ala Ile Gln Trp Gly Trp Ser Glu Ser Ser Arg
1               5                   10                  15

Tyr Arg His Ser Leu
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<210>  1017
<211>  21
<212>  PRT
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<223>  N-terminal biotinyl

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<400>  1017

Xaa Trp Phe Gly Trp Thr Trp Gly Leu Thr Arg Ser Ser Glu Tyr Gln
1               5                   10                  15

His Ser Gly Asn Lys
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<210>  1018
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<400>  1018

Xaa Gly Arg Asn Val Lys Arg Ser Tyr Trp Gly Val Val Asp Trp Gly
1               5                   10                  15

Trp Glu Glu Ser Ser

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<210> 1019
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<220>
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<400> 1019

Xaa Gly Leu Gly Trp Glu Val Gly Trp His Val Leu Glu Ser Ser His
1 5 10 15

Asp Leu Thr Ile His
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<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-succinamic acid (ttds)

<220>
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<400> 1020

Xaa Tyr Tyr Val Ala Val Gly Trp Tyr Arg Ile Thr Thr Gly Glu Ser
1 5 10 15

Met Trp Met Met Val
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<210> 1021
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<220>
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<400> 1021

Xaa Tyr Ser Val Gln Val Gly Trp Tyr Met Asp Ala Ser His Tyr Gln
1 5 10 15

His Ala Met Arg His
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<210> 1022
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<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-succinamic acid (ttds)

<220>
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<400> 1022

Xaa Val Ile Arg Val Gly Trp Tyr Asn Arg Val Ser Gly Gln Ile Met
1 5 10 15

Trp Val Gly Leu Ile
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<210> 1023
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<220>
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<400> 1023

Xaa Trp Val Leu Gly Trp Tyr Asp Lys Ala Leu Glu Thr Glu Tyr Asp
1 5 10 15

Tyr Met Tyr Gly Gly
20

<210> 1024
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<212> PRT
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<220>
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<400> 1024

Xaa Val Glu Val Gly Trp Tyr Leu Val Asp Arg Asp Val Trp Met Leu
1 5 10 15

Trp Ser Asp His Glu
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<210> 1025
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<220>
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<400> 1025

Xaa Gly Trp Phe Met Glu Val Ala Thr Val Leu Gly Val Ile Glu Val
1 5 10 15

Gly Trp Val Val
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<210> 1026
<211> 21
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<220>
<221> MISC_FEATURE
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<400> 1026

Xaa Met Trp Ile Gly Trp His Thr Val Ser Glu Glu Ser Asp His Trp
1 5 10 15

Phe Ala Trp Val Thr
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<210> 1027

<211> 21
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<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> C-terminal amidation

<400> 1027

Xaa Trp Glu Asn Glu Thr Leu Leu Arg Leu Pro Ser Gly Ala Met Val
1 5 10 15

Trp Val Gly Phe Thr
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<210> 1028
<211> 21
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<220>
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<222> (21)..(21)
<223> C-terminal amidation

<400> 1028

Xaa Arg Leu Gly Ile Gln Leu Trp Gly Ala Thr Leu Ser Gln Glu Trp
1 5 10 15

Leu Val Trp Glu Leu
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<210> 1029
<211> 21

<212> PRT
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<220>
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<400> 1029

Xaa Asn Tyr Val Arg Thr Glu Val Leu Trp Glu Asn Glu Val Val Gly
1 5 10 15

Val Trp Leu Glu Trp
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<210> 1030
<211> 21
<212> PRT
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<220>
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<220>
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<400> 1030

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

Ile Gly Tyr Glu Thr
20

<210> 1031
<211> 21
<212> PRT

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<220>
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<220>
<221> MISC_FEATURE
<222> (21)..(21)
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<400> 1031

Xaa Ser Leu Gly His Val His Met Gly Arg Arg Tyr Thr Val Glu Leu
1 5 10 15

Arg Trp Glu Arg Ala
20

<210> 1032
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<220>
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<223> C-terminal amidation

<400> 1032

Xaa Glu Leu Pro Leu Ala Leu Gln Gly Met Glu Ser His Gly Ile Val
1 5 10 15

Ser Trp Gly Trp Ala
20

<210> 1033
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<400>  1033

Xaa Phe Gly Ser Glu Trp Gln Ile Trp Ile Leu Leu Asp Ser Gly Asp
1               5                   10                  15

Glu Tyr Met Leu Gly
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<210>  1034
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<400>  1034

Xaa Ile Phe Gly Val Ile Glu Thr Phe Ala Gly Thr Val Ser Phe Gly
1               5                   10                  15

Trp Glu Trp Tyr Asp
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<210>  1035
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<400>  1035

Xaa Lys Asp Asn Glu Glu Leu Val Leu Met Arg Gly Arg Leu Glu Ile
1               5                   10                  15

Trp Leu Gly Met Glu
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<210>  1036
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<400>  1036

Xaa Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu
1               5                   10                  15

Ile Gly Trp Glu Ile
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<210>  1037
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<400> 1037

Xaa Tyr Ile Leu Trp Ser Val Tyr Val Gly Pro Gly Ile Glu Val Gly
1 5 10 15

Trp Thr Glu Ser Ala
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<210> 1038
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<400> 1038

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

Phe Gly Ser Glu Arg
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<210> 1039
<211> 21
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<400> 1039

Xaa Arg Glu Arg Glu Phe Arg Ile Asn Phe Tyr Val Ser Trp Gly Trp
1 5 10 15

Glu Pro Ser Gly Ile
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<210> 1040
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<400> 1040

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

Leu Trp Trp Glu Tyr
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<210> 1041
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<400> 1041

Xaa Trp Trp Val Thr Asn Asn Val Met Val Gly Trp Glu Phe Val Gln
1 5 10 15

Pro Gly Glu Pro Thr
20

<210> 1042
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<400> 1042

Xaa His Glu Gln Thr Val Thr Leu Trp Tyr His His Arg Glu Thr Gly
1 5 10 15

Val Asp Tyr Arg Ser
20

<210> 1043
<211> 21
<212> PRT
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<400> 1043

Xaa Gly Arg Trp Lys Ser Gly Glu Ser Thr Trp Thr Val Glu Leu Phe
1 5 10 15

Trp Val Trp Asn Gly
20

<210> 1044
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<400> 1044

Xaa Val Glu Trp Glu Leu Trp Val Glu Trp Val Val Glu Gly Gln Glu
1 5 10 15

Val Arg Val Lys Leu
20

<210> 1045
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<212> PRT
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<400> 1045

Xaa Trp Met Val Lys Phe Ser Val Val Arg Gly Ile Thr Glu Val Gly
1 5 10 15

Trp Glu Val Leu Asp
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<210> 1046
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<400> 1046

Xaa Gly Phe Ala Ile Trp Ile Gly Leu Ile Lys Gly His His Ser Tyr
1 5 10 15

Glu Trp Glu Leu Arg
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<210> 1047
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<400> 1047

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

Phe Ile Phe Thr Tyr
20

<210> 1048
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<400> 1048

Xaa His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val
1 5 10 15

Gly Trp Glu Phe Val
20

<210> 1049
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<400> 1049

Xaa Gly Ser Thr Val Gln Val Cys Trp Tyr Trp Glu Glu Val Glu Val
1 5 10 15

Glu Thr Cys Val Ser
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<400> 1050

Xaa Gly Asn Ala Lys Val Trp Leu Cys Val Glu Asp Lys His Met Thr
1 5 10 15

Val Cys Thr Leu Ile
20

<210> 1051
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<400> 1051

Xaa Asp Leu Asp Pro Arg Ile Val Leu Val Gly Asn Gly Glu Ile Glu
1 5 10 15

Ile Gly Trp Ser Ile
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<210> 1052
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<400> 1052

Xaa Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile
1 5 10 15

Glu Tyr Gly Trp Glu
20

<210> 1053
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<400>  1053

Xaa Asn Gln Gly Tyr Thr His Asn Thr Lys Leu Arg Phe Tyr Val Glu
1               5                   10                  15

Leu Gly Trp Glu His
            20

<210>  1054
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<400>  1054

Xaa Trp Ile Glu Val Gly Trp Phe Glu Ala Asn Thr Gly Arg His Arg
1               5                   10                  15

Thr Trp Thr Ile Val
            20

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<400>  1055

Xaa Ile Trp Val Gly Trp Glu Asp Val Arg Arg Gly Arg Ile Leu Glu
1               5                   10                  15

Glu Ile Thr Trp Lys
            20

<210>  1056
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<212>  PRT
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<400>  1056

Xaa Lys Tyr Leu Leu Leu Asp Phe Thr Phe Trp Leu Thr Lys Glu Val
1               5                   10                  15

Gly Val Gly Trp
            20

<210>  1057
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<400> 1057

Xaa Val Trp Val Gly Trp Thr Glu Arg Arg Gly Ser Lys Glu Gln Val
1 5 10 15

Leu Trp Glu Val Lys
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<210> 1058
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<400> 1058

Xaa Glu Val Arg Tyr Arg Phe Glu Gly Ile Pro Phe Phe His Val Ile
1 5 10 15

Phe Gly Trp Glu Phe
20

<210> 1059
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<400>  1059

Xaa Tyr Ser Val Leu Val Trp Arg Ala Gly Gly Gly Gln Val Glu Leu
1               5                   10                  15


Trp Met Ser Arg Val
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<210>  1060
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<223>  C-terminal amidation

<400>  1060

Xaa Pro Ile Trp Glu Arg Asp Ser Val Pro Arg Trp Met Tyr Ser Ile
1               5                   10                  15


Glu Leu Tyr Trp Glu
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<210>  1061
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<400> 1061

Xaa Trp Arg Trp Ser Ile Val Val Gly Tyr Gln Trp Lys Gly Thr Asp
1 5 10 15

His Asp Leu Trp Ala
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<210> 1062
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<400> 1062

Xaa Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile
1 5 10 15

Trp Arg Tyr Pro Ser
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<210> 1063
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<222> (21)..(21)
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<400> 1063

Xaa Trp Phe Gln Arg Glu Tyr Glu Ile Lys Lys Gly Gln Ile Trp Leu
1 5 10 15

Val Ile Arg Val Gly
20

<210> 1064
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<212> PRT
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<400> 1064

Xaa Gln Val Trp Val Gly Tyr Tyr Asn Thr Ile Glu Asp Thr Glu Leu
1 5 10 15

Val Met Trp Thr Val
20

<210> 1065
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<400> 1065

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1 5 10 15

Trp Glu Val Ile Pro
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<210> 1066
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<400> 1066

Xaa Tyr Ser Glu Ile Thr Ile Gly Val Tyr Trp Glu Gln Tyr Ser Tyr
1 5 10 15

Asp Phe Tyr Asn Phe
20

<210> 1067
<211> 21
<212> PRT
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<400> 1067

Xaa Val Val Arg His Trp His Tyr Val Gly Met Glu Phe Gly Phe Glu
1 5 10 15

Lys Val Arg Glu Val
20

<210> 1068
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<400> 1068

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Asp Met Gly Ser Glu
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<400>  1069

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Ile Asp Val Cys Trp
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<210>  1070
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<400>  1070

Xaa Gly Val Ile Val Cys Tyr Thr His Thr Ser Ser Trp His Gly His
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Asn Asp Trp Cys Tyr
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<210> 1071
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<400> 1071

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1 5 10 15

Glu Arg Cys Ser Asn
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Ser Gly Val Ala Phe
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1               5                   10                  15

Gly Val Ala Val Asn
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<210>  1074
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Xaa Gly Val Pro Gly Leu Lys Ser Arg Tyr Ser Glu Gly Leu Ser Leu
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Asp Thr Ser Trp Leu
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Trp Thr Tyr His Val
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Xaa Lys Trp Phe Thr Ile Thr Arg Phe Ala Thr Leu His Thr Ser Tyr
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Ile Phe Ile Gln Asn
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Xaa Asn Arg Ile His Leu Ser Trp Gly Thr Lys Asn Gln Gly Phe Thr
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Lys Leu Lys Arg Ile

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<400> 1079

Xaa Gln Ala Ile Lys Gly Arg Ile His Gly Asp Ile Glu Ser Asp Arg
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Tyr Ser Val Tyr Tyr
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Xaa Ala Gly Ile Gln Leu Val Leu Glu Trp Tyr Gly His Arg Val Ile
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Val Ile Gln Leu Gly
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<210> 1081
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Arg Pro Tyr Met Asp
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Glu Trp Ala Tyr Tyr
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Glu Val Gly Trp Ala
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<210> 1084
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Asp Val Leu Ile Arg
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Asn Met Asp Glu Ala
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Xaa Phe Ala Thr Leu His Glu Trp Arg Ser Gly Phe Met Arg His Arg
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His Leu Arg Ala Ser
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Xaa His Gly Asp Ser Met Trp Lys Trp Thr Val Met Arg Ala Pro Ala
1 5 10 15

Thr Gly Arg Gly Met
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<210> 1089
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Asp Ile Lys Arg Leu
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Xaa Arg Arg Tyr Glu Arg Ala Thr Ala Ser Ser Arg Arg Glu Ser Gln
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Xaa Gly Gly His Cys Thr His Thr Pro Trp Thr Tyr Gly Val Leu Ala
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Trp Val Ser Arg Thr
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Glu Trp Ala Arg Ile
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Xaa Thr Arg Ser Gly Glu Arg Gly Arg Lys Arg Val Leu Ser Ser Tyr
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Trp Leu His Ser Trp
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1               5                   10                  15

Glu Thr Glu Trp Trp
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Xaa Ser Ser Gly His Pro Arg Val Arg Ser Lys Tyr Ser Trp Gly Leu
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Ile Pro Leu Arg Arg
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Gly Glu Gln Thr Ile
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His Tyr

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Asp Tyr Arg His Ser
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Asp Ile Gly Phe Met
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Lys Leu Val Trp Ser
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Arg Trp Glu Arg Ala
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Thr Val Gly Trp Val
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Gln Glu Trp Asp Pro
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Trp Ser Lys Ser Tyr
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Ser Trp Gly Trp Ala
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Leu Cys Val Ala Val
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Val Cys Arg Val Leu
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Cys Trp Ala Tyr Asp
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Val Phe Thr Asn Ala
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Glu Ile Gly Leu His
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Val Gly Val Gly Trp
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Asp Leu Thr Ile His
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Trp Leu Met Gly Thr
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Leu Trp Gln Pro Met
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Trp Ser Val Thr Ile
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Leu Trp Trp Glu Pro
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Gly Trp Val Val
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Ser Glu Trp Pro Gly
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Phe Asn Ala Ser Trp
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Phe Gly Asn Thr Leu
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Glu Tyr Val Leu Ala
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Val Gly Tyr Glu Phe
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Tyr Ile Val Leu Thr
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Tyr Ile Val Leu Thr
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Ile Leu Val Arg Tyr
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Xaa Leu Ile Val Phe Gly Tyr Ser Tyr Ile Glu Thr Glu Glu Glu Phe
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Ile Ile Ser Leu His
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Xaa Leu Leu Trp His Thr Gly Asp His Ser Val Ser Leu Phe Tyr Glu
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Val Leu Asp Tyr Pro
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Xaa Leu Trp Met Val Arg Ile Leu Arg Thr Asp Gly Ala Glu Val Val
1 5 10 15

Val Gly Trp Glu Leu
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His Glu Ile Glu Ile
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Xaa Asn His Val Trp Glu Val Gln Leu Asp Lys Ser Val Trp Ile Gly
1  5  10  15

Trp Glu Trp Ile Asp
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Xaa Asn Ser Ser Asn Ser Asn Gly Gln Lys Phe Arg Tyr Phe Ile Glu
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Val Gly Trp Tyr His
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<210>  1193
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Xaa Asn Thr Thr Gly Arg Ile Glu Leu Trp Ile Gln Leu Pro Asp Arg
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Asp Trp Leu Leu Trp
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Xaa Pro Tyr Phe Val Glu Leu Gly Tyr Glu Gly Tyr Gly Val Phe Tyr

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Lys Ile Glu Leu Leu
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Xaa Pro Tyr Gly Val Trp Tyr Ser Trp Asp Asn Thr Ser Trp Leu Gln
1 5 10 15

Ile Ser Thr His Val
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<400> 1196

Xaa Gln Phe Phe Gly Leu Ile Ser Gly Asp Gly Arg Leu Gln Ile Trp
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Ile Gly Trp Tyr Glu
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<400>  1197

Xaa Gln Gly Lys Tyr Gly Ile Val Ala Trp Gly Trp Val Pro Ser Gly
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Gly His Arg Tyr Gln
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<210>  1198
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Trp Glu Arg Ser Asn
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<400>  1199

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Arg Leu Ala Thr Ile
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Arg Leu Ile Trp Ser
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<210>  1201
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Xaa Gln Trp Asp Trp Val Glu Tyr Glu Trp Gly Asn Thr Gly Leu Val
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Gly Trp Gly Tyr Glu
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<210>  1202
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<400>  1202

Xaa Gln Trp Arg Ile Leu Ile Gly Leu His Glu Met Gly Thr Gly Tyr
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Asp Leu Val Leu Trp

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Xaa Gln Trp Trp Ser Val Gly Tyr Tyr Asp Phe Glu Gln Asp Val His
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Val Val Trp Lys Thr
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<210> 1204
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Val Val Val Trp Ser
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Met Ile Trp Thr Thr
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Xaa Arg Trp Ile Val Tyr Ser His Glu Val Glu Ile Ser Lys Gly Val
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Trp Leu Gly Tyr Glu
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Xaa Arg Tyr Gly Tyr Ile Val Val Gly Trp Tyr Asp Phe Asn Lys Asp
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Leu Tyr Thr Arg Phe
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Phe Glu Trp Gly Thr
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Ala Phe Tyr Tyr Thr
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Trp Val Asp Ser Pro
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Leu Trp Ala Glu Arg
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Phe Gly Trp Glu Tyr
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Phe Gly Trp Glu Trp
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<400> 1214

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Leu Phe Trp Glu Leu
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Xaa Ser Thr Ile Trp Leu Trp Thr Asn Gly Ile Val Glu Val Gly Trp
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Glu Phe Thr Asp Tyr
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Met Leu Trp Leu Gly
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Xaa Ser Trp Arg Val Glu Ile Gly Trp His Trp Leu Ile Ser Gly Ile
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Asp Glu Pro Thr Ile
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Asp Phe Tyr Ser Val
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Met Ile Ala Ser Ile
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Xaa Thr Tyr Val Tyr Trp Glu Val Gly Leu Glu Ser Ala Asn Gly Ala
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Lys Glu Ile Trp Gln
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<400> 1223

Xaa Val Glu Phe Gly Trp Tyr Arg Arg Glu Ser Asp Thr Trp His Ser
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Trp Gly Lys Val Asn
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Xaa Val Glu Ile Gly Trp His Phe Leu Lys Tyr Glu Lys Glu Leu Val
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Trp Tyr Met His Gln
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Xaa Val Glu Ile Gly Trp His Phe Leu Asn Tyr Glu Lys Glu Leu Val
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Trp Tyr Met His Gln
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Xaa Val Glu Val Gly Trp Glu Gln Asp Gly Val Thr Val Trp Thr Val
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Thr Trp Tyr His Thr
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Xaa Val Glu Val Gly Trp Val Ser Leu Phe Lys Asp Leu Thr Val Phe
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Lys Glu Trp Ile Pro
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Xaa Val Phe Glu Val Gly Trp Val Thr Ser Asp Gly Arg Val Leu Trp
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Arg Thr Ile Arg Asn
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<400> 1229

Xaa Val Ile Trp Arg Asp Gly Arg Ser Leu Glu Arg Trp Ser Ile Glu
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Phe Gly Trp Glu Ala
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<400> 1230

Xaa Val Arg Pro Lys Glu Ile Arg Lys Arg Pro Leu Phe Tyr Val Glu
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Leu Phe Trp Glu His
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<210> 1231
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Xaa Val Val Glu Ile Gly Trp Val Leu Val Ser Ser Leu Gly Asn Glu
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Lys Val Val Leu Trp
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Xaa Val Tyr Ser Val Glu Ser Gly Trp Tyr Ser Phe Asn Asp Asp Glu
1 5 10 15

Trp Met Ser Phe Tyr
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<210> 1233
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Xaa Trp Glu Ile Glu Leu Gly Leu Val Met Asn Gly Gln Glu Tyr Met
1 5 10 15

Ile Val Thr Leu Tyr
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<400> 1234

Xaa Trp Glu Tyr Trp Glu Val Tyr Thr Ile Gly Pro Val Thr Val Gly
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Trp Glu Leu Ile Ala
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<210> 1235
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<400> 1235

Xaa Trp Gly Ile Met Glu Leu Gly Met Tyr Trp Tyr Glu Asp Gly Arg
1 5 10 15

His Lys Ala Ile Trp
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<210> 1236
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Xaa Trp Gly Ile Thr Leu Gly Trp Glu Asp Gly His Gly Asn Glu His
1 5 10 15

Asp Glu Tyr Val Leu
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<210> 1237
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Xaa Trp Gly Val Val Glu Val Gly Tyr His Phe Val Ala Thr Gly Ser
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Asn Glu Ala Leu Trp
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<210>  1238
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Xaa Trp Gly Trp Ile Val Ser Ala Gly Trp His Tyr Ser Ala Met Ala
1               5                   10                  15


Glu Asp His Pro Trp
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<210>  1239
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Xaa Trp Ile Phe Thr Trp Ser Ser Gly Asp His Ile Gly Val Ile Glu
1 5 10 15

Met Gly Tyr Glu Ser
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<210> 1240
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<400> 1240

Xaa Trp Ile Val Ile Gly Trp Glu Asp Ala Tyr Gly Arg Ser Val Ile
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Trp Tyr Lys Val Gly
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<210> 1241
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<400> 1241

Xaa Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr
1 5 10 15

Thr Trp Trp Lys Val
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<210> 1242
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<400> 1242

Xaa Trp Lys Trp Arg Thr Phe Asp Gly Ser Ile Glu Ile Gly Phe Val
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Ala Val Gln Trp Ser
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<400> 1243

Xaa Trp Leu Ile Glu Phe Gly Tyr Met Trp Asn Gly Glu Asn Arg Thr
1 5 10 15

Leu Ala Val Trp Glu
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<400> 1244

Xaa Trp Arg Glu Thr Ile Phe Tyr Val Thr Asp Gln Ile Ser Val Val
1 5 10 15

Ile Leu Glu Lys Val
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<400> 1245

Xaa Trp Ser Pro Gly Met Lys Glu Ile Glu Leu Gly Ser Thr Gly Ile
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Tyr Trp Gly Trp Ser
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<400> 1246

Xaa Trp Val Glu Phe Gly Tyr Tyr Asp Pro Glu Thr Asp Glu Ser Thr
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Ile Leu Thr Glu Trp
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<210> 1247
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<400> 1247

Xaa Tyr Ser Ile Val Tyr Gly His Tyr Gln Lys Gln Thr Asn Thr Trp
1 5 10 15

Thr Glu Leu Val Tyr
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<400> 1248

Xaa Tyr Thr Val Glu Val Gly Trp His Thr Val His Thr Gly Arg Asp
1 5 10 15

Asn Tyr Met Trp Met
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<210> 1249
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<400> 1249

Xaa Tyr Val Glu Val Gly Tyr Tyr Phe His Thr Thr Asp Asn Glu Val
1 5 10 15

Ile Ile Tyr Ala Asn
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<400> 1250

Xaa Tyr Val Glu Val Gly Tyr Tyr Phe Tyr Thr Thr Asp Asn Glu Val
1 5 10 15

Ile Ile Tyr Ala Asn
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<400> 1251

Ala Phe Trp Glu Ala Gly Trp Tyr Asp Ser Val Gly Asn Ser Trp Asn
1 5 10 15

Val Phe Phe Lys
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<210> 1252
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<400> 1252

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1253
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<400> 1253

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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Tyr Ile Leu Trp Ser Val Tyr Val Gly Pro Gly Ile Glu Val Gly Trp
1 5 10 15

Thr Glu Ser Ala
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<400> 1255

Asp Leu Asp Pro Arg Ile Val Leu Val Gly Asn Gly Glu Ile Glu Ile
1 5 10 15

Gly Trp Ser Ile
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<210> 1256
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<400> 1256

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

Trp Trp Lys Val
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<210> 1257
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<400> 1257

Ala Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
20

<210> 1258
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<400> 1258

His Ala Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
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Trp Glu Phe Val
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<210>  1259
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<400>  1259

His Leu Ala Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1               5                   10                  15


Trp Glu Phe Val
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<210>  1260
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<400>  1260

His Leu Tyr Ala Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1               5                   10                  15


Trp Glu Phe Val
            20


<210>  1261
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<400> 1261

His Leu Tyr Leu Ala Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1262
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<400> 1262

His Leu Tyr Leu Trp Ala Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1263
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<400> 1263

His Leu Tyr Leu Trp Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1264
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His Leu Tyr Leu Trp Gln Arg Ala Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<400> 1265

His Leu Tyr Leu Trp Gln Arg Trp Ala Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1266
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<400> 1266

His Leu Tyr Leu Trp Gln Arg Trp Pro Ala Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<400> 1267

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Ala Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<400> 1268

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Ala Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<400> 1269

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Ala Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1270
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<400> 1270

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Ala Val Gly

1 5 10 15

Trp Glu Phe Val
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<210> 1271
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<400> 1271

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Ala Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1272
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<400> 1272

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Ala
1 5 10 15

Trp Glu Phe Val
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<210> 1273
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<400>  1273

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1               5                   10                  15


Ala Glu Phe Val
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<210>  1274
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<400>  1274

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1               5                   10                  15


Trp Ala Phe Val
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<210>  1275
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<400> 1275

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Ala Val
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<210> 1276
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<400> 1276

His Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Ala
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<210> 1277
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<400> 1277

Asp Leu Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val

20

<210> 1278
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<222> (20)..(20)
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<400> 1278

His Asp Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
20

<210> 1279
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<400> 1279

His Leu Asp Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
20

<210> 1280
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<212> PRT
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<400> 1280

His Leu Tyr Asp Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1281
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<212> PRT
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<222> (20)..(20)
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<400> 1281

His Leu Tyr Leu Asp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
20

<210> 1282
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<212> PRT
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<400> 1282

His Leu Tyr Leu Trp Asp Arg Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1283
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<212> PRT
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<400> 1283

His Leu Tyr Leu Trp Gln Asp Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1284
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<212> PRT
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<400> 1284

His Leu Tyr Leu Trp Gln Arg Asp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 1285

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<222> (20)..(20)
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<400> 1285

His Leu Tyr Leu Trp Gln Arg Trp Asp Ser Pro Trp Val Glu Val Gly
1 5 10 15


Trp Glu Phe Val
20


<210> 1286
<211> 20
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Asp
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Phe Glu Phe Val
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Trp Phe Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Gly Glu Phe Val
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Trp Gly Phe Val
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Trp Glu Gly Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Lys Phe Val
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Trp Glu Lys Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Leu Phe Val
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Trp Glu Leu Val
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Trp Glu Phe Leu
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<400> 1373

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1 5 10 15

Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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<400> 1377

His Leu Tyr Leu Ser Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
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Trp Glu Phe Val
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<400>  1378

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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Ala Trp Glu Ile
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<400> 1436

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Gly Ala Glu Ile
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<400> 1437

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<400> 1438

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ala
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Asp Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
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Gly Trp Glu Ile
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<400> 1440

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Gly Trp Glu Ile
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<400>  1441

Arg Pro Asp Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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1 5 10 15

Asp Trp Glu Ile
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1 5 10 15

Gly Asp Glu Ile
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Asp Ile
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<400> 1458

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Asp
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Phe Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
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Gly Trp Glu Ile
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<400>  1460

Arg Phe Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1               5                   10                  15


Gly Trp Glu Ile
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Arg Pro Phe Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1               5                   10                  15


Gly Trp Glu Ile
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<210>  1462
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<400> 1462

Arg Pro Thr Phe Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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Arg Pro Thr Thr Phe Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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Gly Trp Glu Ile
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Arg Pro Thr Thr Leu Ile Phe Leu Gly Ala Asn Ser Trp Ile Glu Ile
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Gly Trp Glu Ile
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Arg Pro Thr Thr Leu Ile Arg Phe Gly Ala Asn Ser Trp Ile Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Phe Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<400> 1470

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1 5 10 15

Gly Trp Glu Ile
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1               5                   10                  15

Gly Trp Glu Ile
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Phe Glu Ile
1               5                   10                  15

Gly Trp Glu Ile
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Phe Ile
1               5                   10                  15

Gly Trp Glu Ile
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<400> 1474

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1 5 10 15

Gly Trp Glu Ile
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1 5 10 15

Phe Trp Glu Ile
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1               5                   10                  15


Gly Phe Glu Ile
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<400>  1477

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1               5                   10                  15


Gly Trp Phe Ile
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<400>  1478

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
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Gly Trp Glu Phe
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Gly Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<210> 1480
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1 5 10 15

Gly Trp Glu Ile
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<210> 1481
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1 5 10 15

Gly Trp Glu Ile
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<210> 1482
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<400> 1482

Arg Pro Thr Gly Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
20

<210> 1483
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<400> 1483

Arg Pro Thr Thr Gly Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
20

<210> 1484
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<400> 1484

Arg Pro Thr Thr Leu Gly Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
20

<210> 1485
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<212> PRT
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Trp Glu Ile
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Gly Leu Glu Ile
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<400> 1534

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1 5 10 15

Gly Trp Glu Leu
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<400> 1535

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Gly Trp Glu Ile
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<400> 1536

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1 5 10 15

Gly Trp Glu Ile
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<400> 1537

Arg Pro Ser Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<210> 1538
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<400> 1538

Arg Pro Thr Ser Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<400> 1539

Arg Pro Thr Thr Ser Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<210> 1540
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<400> 1540

Arg Pro Thr Thr Leu Ser Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1               5                   10                  15

Gly Trp Glu Ile
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Arg Pro Thr Thr Leu Ile Ser Leu Gly Ala Asn Ser Trp Ile Glu Ile
1               5                   10                  15

Gly Trp Glu Ile
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<210>  1542
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Arg Pro Thr Thr Leu Ile Arg Ser Gly Ala Asn Ser Trp Ile Glu Ile
1               5                   10                  15

Gly Trp Glu Ile
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<400> 1543

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Gly Trp Glu Ile
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Gly Trp Glu Ile
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1               5                   10                  15


Gly Trp Glu Ile
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<210>  1546
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<400>  1546

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Ser Ile Glu Ile
1               5                   10                  15


Gly Trp Glu Ile
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ser Glu Ile
1               5                   10                  15

Gly Trp Glu Ile
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<400>  1548

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Ser Ile
1               5                   10                  15


Gly Trp Glu Ile
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<210>  1549
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<400>  1549

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ser
1               5                   10                  15


Gly Trp Glu Ile
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<400> 1550

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Ser Trp Glu Ile
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<210> 1551
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Ser Glu Ile
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<210> 1552
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Ser Ile
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ser
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Pro Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
20

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Arg Pro Pro Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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Arg Pro Thr Pro Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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1 5 10 15

Gly Trp Glu Ile
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<400> 1558

Arg Pro Thr Thr Leu Pro Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<210> 1559
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<400> 1559

Arg Pro Thr Thr Leu Ile Pro Leu Gly Ala Asn Ser Trp Ile Glu Ile

1 5 10 15

Gly Trp Glu Ile
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<400> 1560

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1 5 10 15

Gly Trp Glu Ile
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<210> 1561
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<400> 1561

Arg Pro Thr Thr Leu Ile Arg Leu Pro Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<210> 1562
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<400>  1562

Arg Pro Thr Thr Leu Ile Arg Leu Gly Pro Asn Ser Trp Ile Glu Ile
1               5                   10                  15

Gly Trp Glu Ile
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<210>  1563
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Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Pro Ser Trp Ile Glu Ile
1               5                   10                  15

Gly Trp Glu Ile
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<400> 1564

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Pro Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<400> 1565

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Pro Ile Glu Ile
1 5 10 15

Gly Trp Glu Ile
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<400> 1566

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Pro Glu Ile
1 5 10 15

Gly Trp Glu Ile

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<400> 1567

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Pro Ile
1 5 10 15

Gly Trp Glu Ile
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<210> 1568
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<400> 1568

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Pro
1 5 10 15

Gly Trp Glu Ile
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<210> 1569
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<400> 1569

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Pro Trp Glu Ile
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<400> 1570

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Pro Glu Ile
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<210> 1571
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<400> 1571

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Pro Ile
20

<210> 1572
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<400> 1572

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly Trp Glu Pro
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<210> 1573
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<400> 1573

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile
1 5 10 15

Gly

<210> 1574

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<400> 1574

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile
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<210> 1575
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<400> 1575

Arg Pro Thr Thr Leu Ile Arg Leu Gly Ala Asn
1 5 10


<210> 1576
<211> 8
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<400> 1576

Arg Pro Thr Thr Leu Ile Arg Leu
1 5

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<400> 1577

Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile Gly Trp Glu
1 5 10 15

Ile

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<400> 1578

Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile Gly Trp Glu Ile
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<210> 1579
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<400> 1579

Ala Asn Ser Trp Ile Glu Ile Gly Trp Glu Ile
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<400> 1580

Trp Ile Glu Ile Gly Trp Glu Ile
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<400> 1581

Thr Leu Ile Arg Leu Gly Ala Asn Ser Trp Ile Glu Ile Gly
1 5 10

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Arg Leu Gly Ala Asn Ser Trp Ile
1               5


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<400>  1583

Ala Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
1               5                   10                  15


Trp Trp Lys Val
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<210>  1584
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<400> 1584

Trp Ala Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
1 5 10 15

Trp Trp Lys Val
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Trp Trp Lys Ala
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Asp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Asp Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Lys Asp Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Lys Ile Asp Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Asp Trp Lys Val
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Trp Asp Lys Val
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Trp Trp Lys Asp
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Trp Phe Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Lys Phe Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Lys Ile Ile Phe Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Lys Ile Ile Val Gly Phe Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Lys Ile Ile Val Gly Trp Phe Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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<210> 1634
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<400> 1634

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Trp Trp Lys Val
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<400> 1635

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1 5 10 15

Trp Trp Lys Val
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<400> 1636

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

Trp Trp Lys Val
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<210> 1637
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<400> 1637

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

Phe Trp Lys Val
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<210> 1638
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<400> 1638

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

Trp Phe Lys Val
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<210> 1639
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<400> 1639

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

Trp Trp Phe Val
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<210> 1640
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<400> 1640

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

Trp Trp Lys Phe
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<400> 1641

Gly Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr

1 5 10 15

Trp Trp Lys Val
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<210> 1642
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<400> 1642

Trp Gly Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
1 5 10 15

Trp Trp Lys Val
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<400> 1643

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

Trp Trp Lys Val
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<210> 1644
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<400>  1644

Trp Lys Ile Gly Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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<210>  1645
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<400>  1645

Trp Lys Ile Ile Gly Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
1               5                   10                  15

Trp Trp Lys Val
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<400> 1646

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

Trp Trp Lys Val
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<400> 1647

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

Trp Trp Lys Val
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<210> 1648
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<400> 1648

Trp Lys Ile Ile Val Gly Trp Glu Gly Phe Asp Thr Gly Glu Thr Thr
1 5 10 15

Trp Trp Lys Val

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<400> 1649

Trp Lys Ile Ile Val Gly Trp Glu Leu Gly Asp Thr Gly Glu Thr Thr
1 5 10 15

Trp Trp Lys Val
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<400> 1650

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

Trp Trp Lys Val
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<400> 1651

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

Trp Trp Lys Val
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<210> 1652
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<400> 1652

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

Trp Trp Lys Val
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<210> 1653
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<400> 1653

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

Trp Trp Lys Val
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<210> 1654
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<400> 1654

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

Trp Trp Lys Val
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<210> 1655
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<400> 1655

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

Gly Trp Lys Val
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<210> 1656

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<400> 1656

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


Trp Gly Lys Val
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<210> 1657
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<400> 1657

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


Trp Trp Gly Val
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<210> 1658
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<400> 1658

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

Trp Trp Lys Gly
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<210> 1659
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<400> 1659

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

Trp Trp Lys Val
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<210> 1660
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<400> 1660

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

Trp Trp Lys Val
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<210>  1661
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<400>  1661

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


Trp Trp Lys Val
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<210>  1662
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<400>  1662

Trp Lys Ile Ile Lys Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
1               5                   10                  15


Trp Trp Lys Val
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<210>  1663
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<400>  1663

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

Trp Trp Lys Val
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<210>  1664
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<400>  1664

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

Trp Trp Lys Val
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<210>  1665
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<400> 1665

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

Trp Trp Lys Val
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<210> 1666
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<400> 1666

Trp Lys Ile Ile Val Gly Trp Glu Lys Phe Asp Thr Gly Glu Thr Thr
1 5 10 15

Trp Trp Lys Val
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<210> 1667
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<400> 1667

Trp Lys Ile Ile Val Gly Trp Glu Leu Lys Asp Thr Gly Glu Thr Thr
1 5 10 15

Trp Trp Lys Val
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<210> 1668
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<400> 1668

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

Trp Trp Lys Val
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<210> 1669
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<400> 1669

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

Trp Trp Lys Val
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<210> 1670
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<400> 1670

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

Trp Trp Lys Val
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<210> 1671
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<400> 1671

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

Trp Trp Lys Val
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<210> 1672
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<400> 1672

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

Trp Trp Lys Val
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<210>  1673
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<400>  1673

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

Trp Trp Lys Val
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<210>  1674
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<400>  1674

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

Lys Trp Lys Val
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<210>  1675
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<212> PRT
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<400> 1675

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

Trp Lys Lys Val
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<210> 1676
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<400> 1676

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

Trp Trp Lys Lys
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<210> 1677
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<400> 1677

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

Trp Trp Lys Val
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<210> 1678
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<400> 1678

Trp Leu Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
1 5 10 15

Trp Trp Lys Val
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<210> 1679
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<400> 1679

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

Trp Trp Lys Val
            20


<210>  1680
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<212>  PRT
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<223>  C-terminal amidation

<400>  1680

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


Trp Trp Lys Val
            20


<210>  1681
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<212>  PRT
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<223>  C-terminal amidation

<400>  1681

Trp Lys Ile Ile Leu Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
1               5                   10                  15


Trp Trp Lys Val
            20


<210>  1682
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<400> 1682

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

Trp Trp Lys Val
20

<210> 1683
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<400> 1683

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

Trp Trp Lys Val
20

<210> 1684
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Trp Trp Lys Val
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<400>  1685

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1               5                   10                  15


Trp Trp Lys Val
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<400>  1686

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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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<400> 1689

Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Leu Thr Thr
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Trp Trp Lys Val
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<400> 1690

Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Leu Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Leu Trp Lys Val
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Trp Trp Lys Leu
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Trp Trp Lys Val
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Trp Ser Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Lys Ser Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Lys Ile Ile Val Gly Trp Glu Ser Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Ser Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Ser Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Ser Glu Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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<400> 1712

Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Ser Trp Lys Val
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<400>  1713

Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Ser Lys Val
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Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Ser Val
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Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Pro Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val

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Trp Trp Lys Val
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Trp Trp Lys Val
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1 5 10 15

Trp Trp Lys Val
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1 5 10 15

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

Trp Trp Lys Val
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Trp Lys Ile Ile Val Gly Trp Glu Pro Phe Asp Thr Gly Glu Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Trp Lys Val
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<210> 1727
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Trp Trp Lys Val
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<210> 1728
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Trp Trp Lys Val
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<400> 1729

Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Pro Thr Thr
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Trp Trp Lys Val
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Trp Trp Lys Val
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Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Pro
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Trp Trp Lys Val
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<400>  1732

Trp Lys Ile Ile Val Gly Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr
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Pro Trp Lys Val
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<400>  1733

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Trp Trp Pro Val
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<400> 1735

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1 5 10 15

Trp Trp Lys Pro
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Trp

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<400> 1738

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Trp Glu Leu Phe Asp Thr Gly Glu Thr Thr Trp Trp Lys Val
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Phe Asp Thr Gly Glu Thr Thr Trp Trp Lys Val
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Gly Glu Thr Thr Trp Trp Lys Val
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Trp Glu Leu Phe Asp Thr Gly Glu
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<400> 1746

Asp Phe Gly Asn Glu Asn Lys Trp Gly Ser Val Trp Ala Val Ser Phe
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Ala Phe Trp Tyr
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<210> 1747
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Val Phe Ala Asn Gly Lys Ser Gly Trp Trp Phe Tyr Asn Phe Glu Trp
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Asp Val Ala Ser
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<400> 1748

Trp Leu Glu Leu Tyr Ser Val Val Phe Arg Pro Pro Glu Gln Gly Trp
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His Val Trp Trp
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<400> 1749

Trp His Gln Ser Glu Tyr Pro Val Val Phe Gly Leu Trp Pro Arg Glu
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Trp Trp Leu Val
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<400> 1750

Gly Gly Leu Ile Thr Thr Trp Asn Ile Glu Trp Glu Leu Arg Arg Ile
1 5 10 15

Ile Ala Pro Ser
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<210> 1751
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<400> 1751

Pro Ala Thr Gly Leu Ile Ile Trp Ser Glu Thr Arg Gly Ile Arg Leu
1 5 10 15

Ile Trp Asn Glu
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<210> 1752
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<400> 1752

Thr Ser Gly Ser Ala Trp Gly Trp Glu Ile Pro Val Val Glu Tyr Gly
1 5 10 15

Ile Val Tyr Leu
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<400> 1753

Val Ala Tyr Val Trp Thr Leu Tyr Val Gly Ile Ser Glu Glu Ser Pro
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Gly Ile Gly Trp
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<400> 1754

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

Val Trp Trp Lys
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<400> 1755

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

Thr Gly Trp Glu
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<210> 1756
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<400> 1756

Leu Asp Gly Ile Ser Leu Gly Gly Pro Val Ile Trp Val Asn Ile Glu
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Asp Ile Glu Arg
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<210> 1757
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<400> 1757

Gly Leu Val Ile Ile Glu Pro Asp Leu Ile Val Asp Ser Gly Gly Trp
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Glu Asn Arg Ile
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<210> 1758
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<400> 1758

Xaa Gly Gln Ile Glu Trp Gly Phe Tyr Asp His Thr Thr Asn Gln Tyr
1 5 10 15

Trp Ser Met Asp Val
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<210> 1759
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<400> 1759

Xaa Leu His Glu Leu Gly Arg Ile Gln Thr Glu Gln Tyr Ser Ile Glu
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Ile Tyr Tyr Val His
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<400> 1760

Xaa His Arg Ile Glu Ile Trp Trp Tyr Asn Ser Gly Thr Asn Lys His
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Gly Leu Val His Thr
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<210> 1761
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<400> 1761

Xaa Gly Arg His Thr Asn Asp Ile Asn Lys Met Arg Arg Ala Val Gln
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Ala Leu Phe Glu Asn
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<210> 1762
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<400> 1762

Xaa Trp Gly Leu Gly Phe Tyr Asp Val Asn Thr Trp Arg His Thr Pro
1 5 10 15

Ile Ala Phe Lys Thr
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<210> 1763
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<400> 1763

Xaa Val Trp Ile Ser Leu Gly Trp Tyr Asp Met Val Asn Asp Arg His
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Ser Ser Leu Ile Met
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<210> 1764
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<400> 1764

Xaa Arg Lys Glu Tyr Glu Trp Ala Glu Arg Glu Gly Trp Lys Thr Thr
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Leu Ser Met Phe Leu
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<210> 1765
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<400> 1765

Xaa Ala Tyr Met Trp Met Ile Gly Met Tyr Tyr Thr Glu Leu Asp Thr
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His Lys Val Val Ala
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<210> 1766
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<400> 1766

Xaa Thr Val Asn Ser Ser Val Asp Trp Gly Tyr Glu Met Tyr Ala Ser
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Gln Trp Arg His Asn
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<210> 1767
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<400> 1767

Xaa His Val His Leu Thr Tyr Gln Ile Glu Val Gly Trp Glu Tyr Val
1 5 10 15

Lys Glu Ile Tyr Lys
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<210> 1768
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<400> 1768

Xaa Arg Leu Arg Ile Glu Leu Gly Val Ile Val Asp Gly Gln Val Leu
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Ile Trp Lys Val Leu
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<210> 1769
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<400> 1769

Xaa His Gly Val Glu Val Gly Phe Trp Asp Thr Val Met Asp Lys Val
1 5 10 15

Tyr Ile Val His Met
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<400> 1770

Xaa Ile Trp Val Gly Tyr Phe Asn Tyr Glu Asp Asn Tyr Trp Ser Gln
1 5 10 15

Ile Gly Ser Met Thr
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<210> 1771
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<400> 1771

Xaa Ser His Arg Trp Arg Arg Leu Arg Glu Leu Lys Trp Tyr Val Glu
1 5 10 15

Phe Gly Trp Glu Val
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<210> 1772
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<400> 1772

Xaa Tyr Glu Trp Val Asp Arg Ala Gly Glu Met Ala Leu Phe Thr Leu
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Arg Asp Phe Tyr Ala
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<210> 1773
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<400> 1773

Xaa Ile Phe Thr Val Glu Leu Trp Trp Asp Ser Thr Gln Gly Glu Gly
1 5 10 15

Met Ile Trp Ser Ile
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<210> 1774
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<400> 1774

Xaa Trp Val Ser Leu Gly Trp Tyr Asp Ser Arg Ser Val Asn Glu Gln
1 5 10 15

Trp Tyr Ser Val Trp
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<210> 1775
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<400> 1775

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

Val Gly Tyr Glu Val
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<210> 1776
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<400> 1776

Xaa Gly Val Thr Ala Gly His Tyr Tyr Ile Asp Ile Asn Thr Tyr Lys
1 5 10 15

Pro Phe Glu Ser Gly
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<210> 1777
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<220>
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<400> 1777

Xaa Trp Leu Val Val Arg Val Asn Asn Gln Ile Ser Val Trp Trp Asp
1 5 10 15

Val Gly Phe Thr Thr
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<210> 1778
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<400> 1778

Xaa Glu Asp Pro Trp Glu Trp Gln Val Trp Ile Ser Val Asn Gly Thr
1 5 10 15

Glu Ile Arg Leu His
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<210> 1779
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<400> 1779

Xaa Trp Arg Phe Trp His Ala His Glu Asn Ser Gly Phe Leu Val Glu
1 5 10 15

Ile Gly Tyr Glu Arg
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<210> 1780
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<400> 1780

Xaa Glu Lys Thr Ile Glu Val Gly Leu Tyr Phe Lys Lys Glu Asp Val
1 5 10 15

Tyr Lys Pro Met Gly
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<400> 1781

Xaa Lys Leu Ile Arg Val Gly Phe Tyr Asn Leu Asn Thr Asn Thr His
1 5 10 15

Thr Tyr Trp Glu Asp
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<210> 1782
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<400> 1782

Xaa Ser Ile Val Ile Met Gly Phe Tyr Asn Tyr Asn Ser Asp Thr Tyr
1 5 10 15

Lys Leu Trp Ser Met
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<210> 1783
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<400> 1783

Xaa Leu Ala Ile Glu Met Trp Trp Gln Ser Val Ala Glu Thr Glu His
1 5 10 15

Lys Gly Leu Ile Trp
20

<210> 1784
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<400> 1784

Xaa Ala Val Trp Pro Glu Arg Arg Val Thr Val Val Tyr Tyr Arg Trp
1 5 10 15

His Val Pro Ala Lys
20

<210> 1785
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<400> 1785

Xaa Gly Asn Arg Asn Leu Asp Trp Leu His Thr Tyr Ser Val Glu Leu
1 5 10 15

Phe Trp Glu Leu Asn
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<210> 1786
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<400> 1786

Xaa Gly Ile Thr Val Gly Tyr Met Asn Met Asp Ser Gly Ala Tyr Leu
1 5 10 15

Ile Ile Trp Ser Arg
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<210> 1787
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<400> 1787

Xaa Thr Trp Asn Ser Arg Val Tyr Leu Gly Met Asn Tyr Glu Val Glu
1 5 10 15

Ile Gly Tyr Glu Gln
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<210> 1788
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<400> 1788

Xaa Glu Val Phe Leu Leu Met Leu Trp Tyr Asp Ala Lys Gly Asn Glu
1 5 10 15

Val Arg Met Arg Ile
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<210> 1789
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<400> 1789

Xaa His Val Gln Ile Gly Trp Tyr Ser Val Asp Ser Asp Arg His Tyr
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Ala Tyr Ser Ser Tyr
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<210> 1790
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<400> 1790

Xaa Ser Ile Val Val Gly Trp Tyr Trp Arg Ala Thr Asp Arg His Ile
1 5 10 15

Arg Phe His Arg Ser
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<210> 1791
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<400> 1791

Xaa Trp Val Val Ala Thr Gly Ser Asn Trp Glu Leu Trp Val Glu Pro
1 5 10 15

Trp Asn Gly Lys Ala
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<210> 1792
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<400> 1792

Xaa Val Val Trp Arg Ser Ala Asn Arg Met Ile Val Phe Gly Trp Glu
1 5 10 15

Tyr His Asp Asn Tyr
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<210> 1793
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<400> 1793

Xaa Tyr Thr Val Glu Val Gly Trp His Thr Val His Thr Gly Arg Asp
1  5  10  15

Asn Tyr Val Trp Met
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<400>  1794

Xaa Tyr Val Glu Val Gly Tyr Tyr Phe His Thr Thr Gly Asn Glu Val
1  5  10  15

Ile Ile Tyr Ala Asn
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Xaa Ser Ile Val Ile Met Gly Phe Tyr Asn Tyr Asn Ser Asp Thr Tyr
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Lys Leu Trp Gly Met
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Xaa Tyr Thr Val Glu Val Gly Trp His Thr Val His Ala Gly Arg Asp
1  5  10  15

Asn Tyr Met Trp Val
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<210>  1797
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<400>  1797

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

Ser Met Trp Met
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<210> 1798
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<400> 1798

Xaa Thr Trp Val Glu Ile Gly Phe Tyr Asp Arg Ile Asn Asp Arg Ile
1 5 10 15

Trp Arg Leu Tyr Ser
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<210> 1799
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<400> 1799

Xaa Tyr Arg Thr Asn Arg Ala Ile Val Thr Val Gly Trp Ala Ile Ala
1 5 10 15

Ser Thr Tyr Thr His
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<210> 1800
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<400> 1800

Xaa Tyr Ala Val Glu Val Gly Trp His Thr Val His Thr Gly Arg Asp
1 5 10 15

Asn Tyr Met Trp Met
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<210> 1801
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<221> MISC_FEATURE
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<400> 1801

Xaa Tyr Thr Val Glu Val Gly Trp His Thr Val His Thr Gly Arg Asp
1 5 10 15

Asn Tyr Met Trp Val
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<210> 1802
<211> 21
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<400> 1802

Xaa Tyr Val Glu Val Gly Tyr Tyr Phe His Thr Thr Asp Asn Glu Val
1 5 10 15

Val Ile Tyr Ala Asn
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<210> 1803
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<400> 1803

Xaa Tyr Thr Val Glu Val Gly Trp His Thr Ala His Thr Gly Arg Asp
1 5 10 15

Asn Tyr Met Trp Met
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<210> 1804

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<400> 1804

Xaa Tyr Val Glu Val Gly Tyr Tyr Phe His Ala Thr Asp Asn Glu Val
1 5 10 15

Ile Ile Tyr Ala Asn
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<210> 1805
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<400> 1805

Xaa Tyr Ile Val Glu Val Gly Trp His Thr Val His Thr Gly Arg Asp
1 5 10 15

Asn Tyr Met Trp Met
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<210> 1806
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<400> 1806

Xaa Arg Ile Glu Leu Gly Trp His Val Leu Glu Asp Gly Arg Asp His
1 5 10 15

Gly Ile Arg Trp Ile
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<210> 1807
<211> 21
<212> PRT
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<400> 1807

Xaa Gln Val Trp Val Gly Tyr Tyr Asn Thr Ile Glu Asn Thr Glu Leu
1 5 10 15

Val Met Trp Thr Val
20

<210> 1808
<211> 21
<212> PRT

<213> Artificial Sequence

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<220>
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<400> 1808

Xaa Tyr Val Glu Val Gly Tyr Tyr Ser His Thr Thr Asp Asn Glu Val
1 5 10 15

Ile Ile Tyr Ala Asn
20

<210> 1809
<211> 21
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<400> 1809

Xaa Ser Ile Glu Val Gly Thr Tyr Asp Ser Arg Thr Glu Lys Tyr Arg
1 5 10 15

Ile Trp Phe Tyr Tyr
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<210> 1810
<211> 21
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<400>  1810

Xaa Trp Ser Ile Glu Leu Tyr Ile Glu Asn Leu Asp Asp Gly Glu Glu
1               5                   10                  15

Val Met Val Trp Thr
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<210>  1811
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<400>  1811

Xaa Tyr Thr Val Glu Val Gly Trp His Thr Val Tyr Thr Gly Arg Asp
1               5                   10                  15

Asn Tyr Met Trp Met
            20

<210>  1812
<211>  20
<212>  PRT
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<223>  N-terminal acetylation

<220>
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<222>  (6)..(16)
<223>  Cys residues linked via disulfide bond

<220>
<221>  MISC_FEATURE
<222>  (20)..(20)
<223>  C-terminal amidation

<400>  1812

Thr Glu Asn Ala Val Cys Ile Arg Ile Thr Met Trp Ile Glu Leu Cys
1               5                   10                  15

Ser Glu Arg Ile
            20

<210>  1813
<211>  20
<212>  PRT
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<223>  C-terminal amidation

<400>  1813

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210>  1814
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<400> 1814

Gly Val Ile His Tyr Glu Trp Trp Asn Asp Tyr Glu Val Ser Tyr Pro
1 5 10 15

Arg Ile Trp Gly
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<210> 1815
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<400> 1815

Arg Ile Ile Trp Tyr Trp Gly Trp Gly Ser Val Tyr Val Glu Glu Tyr
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Asp Asn His Pro
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<210> 1816
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<400> 1816

Tyr Thr Val Glu Val Gly Trp His Thr Val His Thr Gly Arg Asp Asn

1 5 10 15

Tyr Met Trp Met
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<400> 1817

Gly Trp Thr Thr Met Tyr His Val Val His Met Val Glu Gly Tyr Trp
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Asp Thr Asn Arg
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<400> 1818

Arg Glu His Met Val Asn Val Gly Trp Asp Trp Thr Tyr Gly Thr Thr
1 5 10 15

Tyr Val His Met
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<400>  1819

Gly Arg His Thr Asn Asp Ile Asn Lys Met Arg Arg Ala Val Gln Ala
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Leu Phe Glu Asn
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<210>  1820
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<400>  1820

Phe Ala Glu Asn Asp Val Asn Met His Asn Ile Gly Arg Leu Arg Gln
1               5                   10                  15

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

Asp Ala Val Asn
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<210> 1822
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<400> 1822

His Val Gln Ile Gly Trp Tyr Ser Val Asp Ser Asp Arg His Tyr Ala
1 5 10 15

Tyr Ser Ser Tyr
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<210> 1823
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<400> 1823

Tyr Gln Gly Ser His Asp Trp His Tyr Ser Ser Asp Tyr Val Ser Arg
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Tyr Ala Val Ile

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<400> 1824

Tyr His Ser Tyr Asp Gly Tyr Trp Ser Ile His Ala Tyr Asp Arg Val
1 5 10 15

Gln Ser Ser Val
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<210> 1825
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<400> 1825

Tyr Val Glu Val Gly Tyr Tyr Phe His Thr Thr Asp Asn Glu Val Val
1 5 10 15

Ile Tyr Ala Asn
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<400> 1826

Phe Gly Asn Tyr Val Asn Tyr Glu Val Ala Asp Glu Thr Val Val Thr
1 5 10 15

Ile His Tyr Tyr
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<210> 1827
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<400> 1827

Tyr Ala Glu Tyr Thr Phe Val Glu His Val Val Asn Thr Gly Asp Tyr
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Ile Asn Val Tyr
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<210> 1828
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<400> 1828

Ser Ile Glu Val Gly Thr Tyr Asp Ser Arg Thr Glu Lys Tyr Arg Ile
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Trp Phe Tyr Tyr
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<210> 1829
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<400> 1829

Tyr Ile Lys Trp Tyr Glu Arg Thr Ser Asp Thr Val Phe Gly Arg Ile
1 5 10 15

Ser Tyr Tyr Glu
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<210> 1830
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<400> 1830

Phe Glu Tyr Thr Ile Tyr Lys Tyr Arg Trp Thr Arg Gly Ser Asp Tyr
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Val Ile Ser Glu
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<211> 20
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<400> 1831

Val Phe Gln Lys Glu Glu Cys Val Leu Ala Thr Glu Ser Val Trp Val
1 5 10 15

Cys Trp Gly Asn
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<210> 1832
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<400> 1832

Gln Gly Trp Val Asn Ser Cys Glu Thr Leu Phe Ala Val Val Glu Lys
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Cys Glu Trp Val
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<210> 1833
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<400> 1833

Glu Val Trp Lys Trp Asn Cys Thr Ser Val Phe Glu Val Gly Gln Val
1 5 10 15

Cys Ala Glu Leu
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<210> 1834
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<400> 1834

Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
1 5 10 15

Tyr Gly Trp Glu
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<210> 1835
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<400> 1835

Ala Gly Trp Val Ile Asp Gln Leu Tyr Trp Lys Gly Met Pro Trp Gly
1 5 10 15

Trp Glu Arg Glu
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<210> 1836
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<400> 1836

Arg Ile Asp Gly Glu Tyr Leu Gln Met Trp Ala Trp Pro Trp Glu Trp
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Lys Val Gly Gly
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<210> 1837
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<400> 1837

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

Leu Cys Trp Gln
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<400> 1838

Thr Ser Val Gly Thr Val Glu Cys Tyr Glu Trp Val Leu Asp Gln Ala
1 5 10 15

Glu Cys Val Arg
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<210> 1839
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<400> 1839

Glu Thr Gln Thr Ser Glu Tyr Cys Gly Trp Val Ala Glu Arg Asp Val
1 5 10 15

Val Cys Leu Val
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<210> 1840
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<400> 1840

Leu Asp Gly Gly His Trp Cys Trp Glu Ile Ser Asp Ser Val Met Leu
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Cys Val Ala Val
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<210> 1841
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<400> 1841

Leu His Val Trp Ser Asp Cys Ile Trp Leu Asp Val Gly Glu Ser Met
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Cys Val Gly Ala
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<210> 1842
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<400> 1842

Val Trp Leu Met Val Leu Cys Ile Asp Gly Val Ser Asp Gly Trp His
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Cys Ala Ser Glu
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<210> 1843
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<400> 1843

Ile Glu Val Gly Trp Tyr Asn Val Val Thr Gln Lys His Ser Lys Leu

1 5 10 15

Gly Met Leu Ile
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<210> 1844
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<400> 1844

Lys Gly Gln Val Glu Ile Gly Leu Tyr Trp Val Lys Leu His Val Ile
1 5 10 15

Ser Met Thr Asn
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<210> 1845
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<400> 1845

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

Lys Gly Leu Val
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<210> 1846
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<400>  1846

Val Glu Val Gly Trp Glu Gln Asp Gly Val Thr Val Trp Thr Val Thr
1               5                   10                  15


Trp Tyr His Thr
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<210>  1847
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<400>  1847

Glu His Val Thr Val Asp Val Glu Trp Val Val Thr Gly Trp Gln Tyr
1               5                   10                  15


Trp Thr Gly Thr
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<210>  1848
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<400> 1848

Gln Trp Val Trp Thr His Asp Thr Val Glu Val Glu Tyr Val Gly Gly
1 5 10 15

Thr Trp Val Thr
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<210> 1849
<211> 20
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<400> 1849

Ala Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
1 5 10 15

Arg Tyr Pro Ser
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<210> 1850
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<400> 1850

Val Ala Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
1 5 10 15

Arg Tyr Pro Ser

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<210> 1851
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<400> 1851

Val Tyr Ala Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
1 5 10 15

Arg Tyr Pro Ser
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<210> 1852
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<400> 1852

Val Tyr Glu Ala Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
1 5 10 15

Arg Tyr Pro Ser
20

<210> 1853
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<400> 1853

Val Tyr Glu Val Ala Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
20

<210> 1854
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<400> 1854

Val Tyr Glu Val Gly Ala Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
20

<210> 1855
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<400> 1855

Val Tyr Glu Val Gly Trp Ala His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
20

<210> 1856
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<400> 1856

Val Tyr Glu Val Gly Trp Asp Ala Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1857
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<400> 1857

Val Tyr Glu Val Gly Trp Asp His Ala Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1858

<211> 20
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<400> 1858

Val Tyr Glu Val Gly Trp Asp His Gly Ala Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1859
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<212> PRT
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<400> 1859

Val Tyr Glu Val Gly Trp Asp His Gly Asn Ala Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1860
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<400> 1860

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Ala Glu Ile Ile Trp
1 5 10 15

Arg Tyr Pro Ser
20

<210> 1861
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<400> 1861

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Ala Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1862
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<400> 1862

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ala Ile Trp
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Arg Tyr Pro Ser
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<400>  1863

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ala Trp
1               5                   10                  15


Arg Tyr Pro Ser
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<400>  1864

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Ala
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Arg Tyr Pro Ser
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<400>  1865

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
1               5                   10                  15

Ala Tyr Pro Ser
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<400>  1866

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Ala Pro Ser
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<400> 1867

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
1 5 10 15

Arg Tyr Ala Ser
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<210> 1868
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<400> 1868

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ala
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<210> 1869
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<400> 1869

Asp Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1870
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Val Asp Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Asp Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Asp Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Asp Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1874

Val Tyr Glu Val Gly Asp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp Asp Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Asp Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asp Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Asp Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Asp Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Asp Ile Trp
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Arg Tyr Pro Ser
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<400>  1882

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Asp Trp
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Arg Tyr Pro Ser
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<400>  1883

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Asp
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Arg Tyr Pro Ser
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<400> 1884

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Asp Tyr Pro Ser
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<210> 1885
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<400> 1885

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Asp Pro Ser
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<400> 1886

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Asp Ser
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<400> 1887

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Asp
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<400> 1888

Gly Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1889

Val Gly Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Gly Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Gly Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1892

Val Tyr Glu Val Gly Gly Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1893

Val Tyr Glu Val Gly Trp Gly His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400>  1894

Val Tyr Glu Val Gly Trp Asp Gly Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Gly Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1896

Val Tyr Glu Val Gly Trp Asp His Gly Asn Gly Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1897
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Gly Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Gly Ile Ile Trp
1               5                   10                  15


Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Gly Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Gly Trp
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Arg Tyr Pro Ser
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<210>  1901
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<400>  1901

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Gly
1               5                   10                  15


Arg Tyr Pro Ser
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<400>  1902

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Gly Tyr Pro Ser
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<400> 1903

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Gly Pro Ser
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<400> 1904

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
1 5 10 15

Arg Tyr Gly Ser
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<210> 1905
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<400> 1905

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Gly
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<210> 1906
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<400> 1906

Leu Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1907

Val Leu Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
1 5 10 15

Arg Tyr Pro Ser
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<210> 1908
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Val Tyr Leu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1909
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Arg Tyr Pro Ser
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Val Tyr Glu Val Leu Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Arg Tyr Pro Ser
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<400> 1912

Val Tyr Glu Val Gly Trp Leu His Gly Asn Trp Tyr Glu Ile Ile Trp

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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp Leu Gly Asn Trp Tyr Glu Ile Ile Trp
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Val Tyr Glu Val Gly Trp Asp His Gly Leu Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Leu Glu Ile Ile Trp
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Leu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1920

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Arg Tyr Pro Ser
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<400> 1921

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Leu
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Arg Tyr Pro Ser
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<400> 1922

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Leu Tyr Pro Ser
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<400> 1924

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Leu Ser
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<400> 1925

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Leu
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Lys Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1927

Val Lys Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Arg Tyr Pro Ser
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<400> 1930

Val Tyr Glu Val Lys Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Arg Tyr Pro Ser
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Arg Tyr Pro Ser
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Lys Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Lys Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Lys
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Lys Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Lys Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Lys Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Lys
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<400> 1946

Phe Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1947

Val Phe Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1948
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<400> 1948

Val Tyr Phe Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1949
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<400> 1949

Val Tyr Glu Phe Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1950

Val Tyr Glu Val Phe Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400>  1951

Val Tyr Glu Val Gly Phe Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400>  1952

Val Tyr Glu Val Gly Trp Phe His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400> 1953

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Arg Tyr Pro Ser
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<210> 1954
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<400> 1954

Val Tyr Glu Val Gly Trp Asp His Phe Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1955
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<400>  1955

Val Tyr Glu Val Gly Trp Asp His Gly Phe Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400>  1956

Val Tyr Glu Val Gly Trp Asp His Gly Asn Phe Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<400>  1957

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Phe Glu Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1958
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<400> 1958

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Phe Ile Ile Trp
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Arg Tyr Pro Ser
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<210> 1959
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<400> 1959

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Phe Ile Trp
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Arg Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Phe Trp
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Arg Tyr Pro Ser
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<400> 1961

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Phe
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Arg Tyr Pro Ser
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<400> 1962

Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Phe Tyr Pro Ser
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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<400> 1966

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Arg Tyr Pro Ser
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Val Pro Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Tyr Pro Ser
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Arg Tyr Pro Ser
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Arg Ser Pro Ser
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Gly Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Leu
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Tyr Met Trp Met
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Tyr Met Trp Met
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Tyr Met Trp Lys
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Glu Val Gly Trp His Thr Val His Thr Gly Arg Asp Asn Tyr Met Trp
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Ala Ser Ser Tyr
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Tyr Ala Ser Tyr
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Tyr Ser Ser Ala
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Tyr Ser Ser Tyr

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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Asp Ser Ser Tyr
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Tyr Asp Ser Tyr
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Tyr Ser Asp Tyr
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Gly Val Gln Ile Gly Trp Tyr Ser Val Asp Ser Asp Arg His Tyr Ala
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Phe Ser Ser Tyr
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Tyr Phe Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Pro Ser Ser Tyr
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Tyr Ser Pro Tyr
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Tyr Ser Ser Pro
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Tyr Ser Ser Tyr
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Ser Ser Ser Tyr
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Tyr

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Asp Ser Asp Arg His Tyr Ala Tyr Ser Ser Tyr
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Ala Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Ala Trp Glu
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Tyr Gly Ala Glu
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Tyr Gly Trp Ala
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Asp Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu

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Tyr Gly Trp Glu
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Asp Gly Trp Glu
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Tyr Gly Asp Glu
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Tyr Gly Trp Asp
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Gly Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
1 5 10 15

Tyr Gly Trp Glu
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Asp Gly Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Gly Glu
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Tyr Gly Trp Glu
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Asp Leu Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Leu
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Tyr Gly Trp Glu
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Leu Gly Trp Glu
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Tyr Leu Trp Glu
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Tyr Gly Leu Glu
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Tyr Gly Trp Leu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Asp Gln Val Lys Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Lys Trp Glu
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Tyr Gly Lys Glu
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Tyr Gly Trp Lys
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Asp Gln Val Trp Phe Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Phe Glu
1 5 10 15

Tyr Gly Trp Glu
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Phe
1 5 10 15

Tyr Gly Trp Glu
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<400> 2443

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Phe Gly Trp Glu
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Tyr Phe Trp Glu
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Phe Glu
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Phe
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Tyr Gly Trp Glu
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Asp Pro Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Asp Gln Pro Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Asp Gln Val Trp Trp Pro Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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<400> 2458

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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Pro
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Tyr Gly Trp Glu
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<400> 2462

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Pro Gly Trp Glu
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Tyr Pro Trp Glu
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Tyr Gly Trp Pro
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Ser Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
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Asp Ser Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu
1               5                   10                  15

Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Glu
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Tyr Gly Trp Ser
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Asp Gln Val Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu
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Trp Trp Trp Gly Pro Lys Ala Arg Met Gly Leu Ile Glu Tyr
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Gly Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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1               5                   10                  15

Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Leu Leu Ile
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Gly Met Leu Leu
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Phe
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Gly Met Leu Ile

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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Gly Met Leu Ile
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Ser Met Leu Ile
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Gly Ser Leu Ile
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Gly Met Ser Ile
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Thr Gln Lys His Ser Lys Leu Gly Met Leu Ile
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<400>  2652

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


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Gly Trp Glu Phe Val
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Gly Trp Glu Phe Val
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Xaa His Ala Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val
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Gly Trp Glu Phe Val
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Gly Trp Glu Phe Val
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Xaa His Leu Tyr Leu Trp Gln Ser Trp Pro Ser Pro Trp Val Glu Val
1               5                   10                  15

Gly Trp Glu Phe Val
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1               5                   10                  15

Gly Trp Glu Phe Val
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Xaa His Leu Tyr Leu Trp Gln Arg Phe Pro Ser Pro Trp Val Glu Val
1               5                   10                  15

Gly Trp Glu Phe Val
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Gly Trp Glu Phe Val
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1 5 10 15

Gly Trp Glu Phe Val
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<210> 2662
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1 5 10 15

Trp Glu Phe Val
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<210> 2663
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Gly Trp Glu Phe Val
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Ser Cys Lys Asp Gly Lys Ala Ser Phe Thr Cys Thr
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Leu Trp Trp Lys Val
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Trp Arg Tyr Pro Ser
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Trp Arg Asp Pro Ser
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Asn Tyr Phe Trp Met
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Asn Pro Met Trp Met
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Trp Arg

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Gly Trp Glu Phe Val
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His Lys Tyr Leu Trp Gln Arg Trp Pro Ser Pro Trp Val Glu Val Gly
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Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp Arg Asp Pro Ser
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Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp Arg Asp Pro Ser
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Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe Thr
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Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe Thr
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Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp Arg Asp Pro Ser
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Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe Thr
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Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe Thr
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His Leu Tyr Leu Trp Gln Ala Trp Pro Ser Pro Leu Val Glu Val Gly
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Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe Thr
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Xaa His Leu Tyr Leu Trp Gln Ala Trp Pro Ser Pro Leu Val Glu Val
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Gly Trp Tyr Asp Tyr Asn Phe Asp His Tyr Arg Glu Phe Thr
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Arg Asp Pro Ser Cys
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Cys Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile
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Trp Arg Asp Pro Ser
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Asn Cys Ser Leu Asp Asn Gly Gly Cys Thr His Tyr Cys Leu Glu Glu
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Val Gly Trp Arg Arg Cys Ser
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Gly Cys Thr His Tyr Ser Leu Glu Glu Val Gly Trp Arg Arg Cys Ser
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val

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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp His Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Ile Glu Phe Val
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Trp Ile Phe Val
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Trp Glu Ile Val
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1 5 10 15

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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Met Glu Phe Val
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Trp Met Phe Val
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Trp Glu Met Val
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His Leu Tyr Leu Trp Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
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Trp Glu Phe Met
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Asn Leu Tyr Leu Trp Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
1               5                   10                  15

Trp Glu Phe Val
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1 5 10 15

Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val

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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Asn Glu Phe Val
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Trp Asn Phe Val
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Trp Glu Asn Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Arg Val
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Trp Glu Phe Arg
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Thr Phe Val
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<400>  2855

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1               5                   10                  15


Trp Glu Phe Val
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<400>  2856

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1               5                   10                  15

Trp Glu Phe Val
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His Leu Val Leu Trp Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
1               5                   10                  15


Trp Glu Phe Val
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<400>  2858

His Leu Tyr Val Trp Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
1               5                   10                  15


Trp Glu Phe Val
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<400> 2859

His Leu Tyr Leu Val Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Val Glu Phe Val
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Trp Val Phe Val
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Trp Glu Val Val
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1               5                   10                  15

Trp Glu Phe Val
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<400> 2873

His Trp Tyr Leu Trp Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val
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<210> 2874
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<400> 2874

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Trp Glu Phe Val
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<400> 2875

His Leu Tyr Trp Trp Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
1 5 10 15

Trp Glu Phe Val

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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Trp Phe Val
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Trp Glu Trp Val
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Trp Glu Phe Trp
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1               5                   10                  15

Trp Glu Phe Val
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His Tyr Tyr Leu Trp Gln Ala Trp Pro Ser Pro Trp Val Glu Val Gly
1               5                   10                  15

Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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<400> 2895

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Trp Glu Phe Val
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Trp Glu Phe Val
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<400> 2897

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1 5 10 15

Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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Trp Glu Phe Val
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<400> 2902

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Trp Glu Phe Val
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<400> 2903

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Tyr Glu Phe Val
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Trp Tyr Phe Val
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Trp Glu Tyr Val
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Trp Glu Phe Tyr
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Val Tyr Glu Val Gly Trp Asp His Gly Asn Trp Tyr Glu Ile Ile Trp
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Arg Asp Pro Ser Cys
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Trp Glu Phe Val
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Tyr Glu Phe Val
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Leu Arg Ser Phe Gln Thr Gly Leu Phe Thr Ala Ala Arg Gln Ser Thr
50 55 60

Asn Ala Tyr Pro Asp Leu Arg Ser Cys Val Asn Ala Ile Pro Asp Gln
65 70 75 80

Cys Ser Pro Leu Pro Cys Asn Glu Asp Gly Tyr Met Ser Cys Lys Asp
85 90 95

Gly Lys Ala Ser Phe Thr Cys Thr Cys Lys Pro Gly Trp Gln Gly Glu
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Lys Cys Glu Phe Asp Ile Asn Glu Cys Lys Asp Pro Ser Asn Ile Asn
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Gly Gly Cys Ser Gln Ile Cys Asp Asn Thr Pro Gly Ser Tyr His Cys

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Ser Cys Lys Asn Gly Phe Val Met Leu Ser Asn Lys Lys Asp Cys Lys
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Asp Val Asp Glu Cys Ser Leu Lys Pro Ser Ile Cys Gly Thr Ala Val
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Cys Lys Asn Ile Pro Gly Asp Phe Glu Cys Glu Cys Pro Glu Gly Tyr
            180                 185                 190

Arg Tyr Asn Leu Lys Ser Lys Ser Cys Glu Asp Ile Asp Glu Cys Ser
        195                 200                 205

Glu Asn Met Cys Ala Gln Leu Cys Val Asn Tyr Pro Gly Gly Tyr Thr
    210                 215                 220

Cys Tyr Cys Asp Gly Lys Lys Gly Phe Lys Leu Ala Gln Asp Gln Lys
225                 230                 235                 240

Ser Cys Glu Val Val Ser Val Cys Leu Pro Leu Asn Leu Asp Thr Lys
                245                 250                 255

Tyr Glu Leu Leu Tyr Leu Ala Glu Gln Phe Ala Gly Val Val Leu Tyr
            260                 265                 270

Leu Lys Phe Arg Leu Pro Glu Ile Ser Arg Phe Ser Ala Glu Phe Asp
        275                 280                 285

Phe Arg Thr Tyr Asp Ser Glu Gly Val Ile Leu Tyr Ala Glu Ser Ile
    290                 295                 300

Asp His Ser Ala Trp Leu Leu Ile Ala Leu Arg Gly Gly Lys Ile Glu
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Val Gln Leu Lys Asn Glu His Thr Ser Lys Ile Thr Thr Gly Gly Asp
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Val Ile Asn Asn Gly Leu Trp Asn Met Val Ser Val Glu Glu Leu Glu
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His Ser Ile Ser Ile Lys Ile Ala Lys Glu Ala Val Met Asp Ile Asn
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Lys Pro Gly Pro Leu Phe Lys Pro Glu Asn Gly Leu Leu Glu Thr Lys
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Val Tyr Phe Ala Gly Phe Pro Arg Lys Val Glu Ser Glu Leu Ile Lys
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Gly Ile Ala Gln Phe His Ile Asp Tyr Asn Asn Val Ser Ser Ala Glu
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Gly Trp His Val Asn Val Thr Leu Asn Ile Arg Pro Ser Thr Gly Thr
465                 470                 475                 480

Gly Val Met Leu Ala Leu Val Ser Gly Asn Asn Thr Val Pro Phe Ala
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Val Ser Leu Val Asp Ser Thr Ser Glu Lys Ser Gln Asp Ile Leu Leu
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Ser Val Glu Asn Thr Val Ile Tyr Arg Ile Gln Ala Leu Ser Leu Cys
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Ser Asp Gln Gln Ser His Leu Glu Phe Arg Val Asn Arg Asn Asn Leu
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Glu Leu Ser Thr Pro Leu Lys Ile Glu Thr Ile Ser His Glu Asp Leu
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Gln Arg Gln Leu Ala Val Leu Asp Lys Ala Met Lys Ala Lys Val Ala
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Thr Tyr Leu Gly Gly Leu Pro Asp Val Pro Phe Ser Ala Thr Pro Val
            580                 585                 590

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