

543895_SA9-029PC_Seq_List
SEQUENCE LISTING

<110> SANOFI

<120> ANTIBODIES TO BRADYKININ B1 RECEPTOR LIGANDS

<130> 543895 SA9-029PC

<140> New Application

<141> Concurrently Herewith

<150> 61/616,845

<151> 2012-03-28

<150> FR 1350953

<151> 2013-02-04

<160> 137

<170> PatentIn version 3.5

<210> 1

<211> 10

<212> PRT

<213> Homo sapiens

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Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg
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<210> 2

<211> 9

<212> PRT

<213> Homo sapiens

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Lys Arg Pro Pro Gly Phe Ser Pro Phe
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<210> 3

<211> 10

<212> PRT

<213> Mus musculus

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Arg Arg Pro Pro Gly Phe Ser Pro Phe Arg
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<210> 4

<211> 9

<212> PRT

<213> Mus musculus

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Arg Arg Pro Pro Gly Phe Ser Pro Phe
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<210> 5

<211> 9

<212> PRT

<213> Unknown

<220>

<221> source

<223> /note="Description of Unknown: Bradykinin peptide"

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<210> 6

<211> 8

<212> PRT

<213> Unknown

<220>

<221> source

<223> /note="Description of Unknown: Des-Arg9-Bradykinin peptide"

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<211> 11

<212> PRT

<213> Artificial Sequence

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with respect to those in the annotations for said position"

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or "Phe" or "Tyr" or "Trp"

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with respect to those in the annotations for said positions"

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Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr
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<210> 8

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> /note="Description of Artificial Sequence: Synthetic consensus peptide"

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Gly

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<210> 10
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with respect to those in the annotations for said position"

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<211> 6

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<222> (6)..(6)

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543895_SA9-029PC_Seq_List

Lys Ser Ser Gln Ser Leu Leu Trp Ser Ser Asn Gln Lys Asn His Leu
1 5 10 15

Ala

<210> 13
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<212> PRT
<213> Mus musculus

<400> 13
Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr
1 5 10

<210> 14
<211> 17
<212> PRT
<213> Mus musculus

<400> 14
Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe Arg
1 5 10 15

Gly

<210> 15
<211> 10
<212> PRT
<213> Mus musculus

<400> 15
Gly Tyr Ser Phe Thr Asp Tyr Asn Ile Tyr
1 5 10

<210> 16
<211> 9
<212> PRT
<213> Mus musculus

<400> 16
Gln Gln Tyr Tyr Ser Tyr Pro Trp Thr
1 5

<210> 17
<211> 7
<212> PRT
<213> Mus musculus

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Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 18
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<212> PRT
<213> Mus musculus

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543895_SA9-029PC_Seq_List

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

Ala

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<211> 120
<212> PRT
<213> Mus musculus

<400> 19
Glu Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Thr
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Asn Ile Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
50 55 60

Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Phe
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

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<400> 20
Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

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

543895_SA9-029PC_Seq_List

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
50 55 60

Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Phe
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

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

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
50 55 60

Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Glu Glu Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
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Gly Thr Ser Val Thr Val Ser Ser
115 120

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<213> Artificial Sequence

543895_SA9-029PC_Seq_List

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

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

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Glu Lys Phe
50 55 60

Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Glu Glu Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 23

<211> 120

<212> PRT

<213> Artificial Sequence

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

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

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
50 55 60

Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

543895_SA9-029PC_Seq_List

Met His Leu Ser Ser Lys Thr Ser Glu Glu Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 24
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<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

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

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
50 55 60

Arg Gly Arg Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 25
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<400> 25

543895_SA9-029PC_Seq_List

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Asn Ile Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
50 55 60

Arg Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 26
<211> 113
<212> PRT
<213> Mus musculus

<400> 26
Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly
1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Ser Pro Lys Pro Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Ile Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

543895_SA9-029PC_Seq_List

<210> 27
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Asp Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45

Ser Pro Lys Pro Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Ile Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 28
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 <212> PRT
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<220>
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 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

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 1 5 10 15

Asp Arg Val Thr Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45

543895_SA9-029PC_Seq_List

Ser Pro Lys Pro Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Thr Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 29

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

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<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

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1 5 10 15

Asp Arg Val Thr Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45

Ser Pro Lys Pro Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Lys Ala Thr Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 30

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<212> PRT

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543895_SA9-029PC_Seq_List

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<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

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Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

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

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Pro Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 31

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<212> PRT

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1 5 10 15

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

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

543895_SA9-029PC_Seq_List

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
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Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
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Lys

<210> 32
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<400> 32
Trp Glu Tyr Asp Gly Tyr Tyr Asp Leu Asp Tyr
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Gly

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Gly Phe Asn Ile Lys Asp Tyr Tyr Leu His
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<210> 35
<211> 9
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Leu Gln Gly Thr His Phe Pro Tyr Thr
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<210> 36
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<400> 36
Leu Val Ser Lys Leu Asp Ser
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<210> 37

543895_SA9-029PC_Seq_List

<211> 16

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<213> Mus musculus

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<210> 38

<211> 120

<212> PRT

<213> Mus musculus

<400> 38

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

Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

Gly Trp Ile Asp Pro Glu Asn Gly Asp Thr Gly Tyr Ala Arg Lys Phe
50 55 60

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

Leu His Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Phe
85 90 95

Asn Ala Trp Glu Tyr Asp Gly Tyr Tyr Asp Leu Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 39

<211> 112

<212> PRT

<213> Mus musculus

<400> 39

Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

Asn Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser
35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60

543895_SA9-029PC_Seq_List

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

Ile Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Leu Gln Gly
85 90 95

Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 40
<211> 7
<212> PRT
<213> Mus musculus

<400> 40
Glu Asp Tyr Gly Gly Asp Tyr
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<210> 41
<211> 19
<212> PRT
<213> Mus musculus

<400> 41
Glu Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala Glu Ser
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Val Lys Gly

<210> 42
<211> 10
<212> PRT
<213> Mus musculus

<400> 42
Gly Phe Thr Phe Ser Asn Tyr Trp Met Asn
1 5 10

<210> 43
<211> 9
<212> PRT
<213> Mus musculus

<400> 43
Gln Gln Tyr Tyr Ser Tyr Pro Tyr Thr
1 5

<210> 44
<211> 17
<212> PRT
<213> Mus musculus

<400> 44
Lys Ser Ser Gln Ser Leu Leu Tyr Ser Ser Asp Gln Arg Asn Tyr Leu
1 5 10 15

Ala

543895_SA9-029PC_Seq_List

<210> 45
 <211> 118
 <212> PRT
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<400> 45
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 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ser
 65 70 75 80
 Val Tyr Leu Gln Met Asn Asn Leu Arg Ala Glu Asp Thr Gly Ile Tyr
 85 90 95
 Tyr Cys Ile Gly Glu Asp Tyr Gly Gly Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Ser Val Thr Val Ser Ser
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<210> 46
 <211> 113
 <212> PRT
 <213> Mus musculus

<400> 46
 Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly
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 Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Arg Asn Tyr Leu Ala Trp Tyr Gln Gln Arg Ser Gly Gln
 35 40 45
 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln

Tyr Tyr Ser Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

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 Phe Glu Tyr Asp Gly Asn Tyr Ser Pro Leu Asp Phe
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<210> 48
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 <213> Mus musculus

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 Trp Val Asp Pro Glu Asn Gly Asp Ser Asp Tyr Ala Pro Lys Phe Gln
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<210> 49
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 Gly Phe Asn Ile Lys Asp Tyr Tyr Met His
 1 5 10

<210> 50
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<400> 50
 Gln Asn Asp His Ser Tyr Pro Leu Thr
 1 5

<210> 51
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<400> 51
 Gly Ala Ser Thr Arg Glu Ser
 1 5

<210> 52
 <211> 17
 <212> PRT
 <213> Mus musculus

<400> 52
 Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu

1 5 10 15

Ala

<210> 53
 <211> 121
 <212> PRT
 <213> Mus musculus

<400> 53
 Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala
 1 5 10 15

Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

Tyr Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Trp Val Asp Pro Glu Asn Gly Asp Ser Asp Tyr Ala Pro Lys Phe
 50 55 60

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

Leu Gln Phe Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Asn Ala Phe Glu Tyr Asp Gly Asn Tyr Ser Pro Leu Asp Phe Trp Gly
 100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 54
 <211> 113
 <212> PRT
 <213> Mus musculus

<400> 54
 Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Ala Gly
 1 5 10 15

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

Gly Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Gly Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 Page 20

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<210> 55
<211> 12
<212> PRT
<213> Mus musculus
```

```
<210> 56
<211> 17
<212> PRT
<213> Mus musculus
```

Gly

```
<210> 57
<211> 10
<212> PRT
<213> Mus musculus
```

```
<210> 58
<211> 9
<212> PRT
<213> Mus musculus
```

```
<210> 59
<211> 7
<212> PRT
<213> Mus musculus
```

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<210> 60
 <211> 16
 <212> PRT
 <213> Mus musculus

<400> 60
 Lys Ser Ser Gln Ser Leu Leu Tyr Ser Asn Gly Glu Thr Tyr Leu Asn
 1 5 10 15

<210> 61
 <211> 121
 <212> PRT
 <213> Mus musculus

<400> 61
 Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala
 1 5 10 15

Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

Tyr Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Trp Val Asp Pro Glu Asn Gly Asp Ser Asp Tyr Ala Pro Lys Phe
 50 55 60

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

Leu Gln Phe Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Asn Ala Phe Glu Tyr Asp Gly Asn Tyr Ser Pro Leu Asp Phe Trp Gly
 100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 62
 <211> 112
 <212> PRT
 <213> Mus musculus

<400> 62
 Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Pro Ile Gly
 1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
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50

55

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60

Asp Arg Phe Thr Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80

Ser Arg Val Glu Ser Glu Asp Leu Gly Val Tyr Tyr Cys Met Gln Gly
 85 90 95

Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 63

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 consensus peptide"

<220>

<221> VARIANT

<222> (1)..(1)

<223> /replace="Phe"

<220>

<221> misc_feature

<222> (1)..(1)

<223> /note="Residue given in the sequence has no preference
 with respect to that in the annotation for said position"

<220>

<221> VARIANT

<222> (6)..(6)

<223> /replace=" "

<220>

<221> misc_feature

<222> (6)..(6)

<223> /note="Residue given in the sequence has no preference
 with respect to that in the annotation for said position"

<220>

<221> VARIANT

<222> (8)..(8)

<223> /replace="Ser"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="Pro"

<220>

<221> misc_feature

<222> (8)..(9)

<223> /note="Residues given in the sequence have no preference
 with respect to those in the annotations for said positions"

<220>

<221> VARIANT

<222> (12)..(12)

<223> /replace="Tyr"

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<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> /note="Residue given in the sequence has no preference
 with respect to that in the annotation for said position"

<400> 63
 Trp Glu Tyr Asp Gly Asn Tyr Tyr Asp Leu Asp Phe
 1 5 10

<210> 64
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 consensus peptide"

<220>
 <221> VARIANT
 <222> (2)..(2)
 <223> /replace="Val"

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> /note="Residue given in the sequence has no preference
 with respect to that in the annotation for said position"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="Ser"

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> /note="Residue given in the sequence has no preference
 with respect to that in the annotation for said position"

<220>
 <221> VARIANT
 <222> (10)..(10)
 <223> /replace="Asp"

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> /note="Residue given in the sequence has no preference
 with respect to that in the annotation for said position"

<400> 64
 Trp Ile Asp Pro Glu Asn Gly Asp Thr Gly Tyr Ala Pro Lys Phe Gln
 1 5 10 15

Gly

<210> 65
 <211> 10
 <212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic consensus peptide"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="Met"

<220>

<221> misc_feature

<222> (9)..(9)

<223> /note="Residue given in the sequence has no preference with respect to that in the annotation for said position"

<400> 65

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

<210> 66

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic consensus peptide"

<220>

<221> VARIANT

<222> (2)..(2)

<223> /replace="Asn"

<220>

<221> VARIANT

<222> (3)..(3)

<223> /replace="Phe" or "Asp" or "His"

<220>

<221> misc_feature

<222> (2)..(3)

<223> /note="Residues given in the sequence have no preference with respect to those in the annotations for said positions"

<220>

<221> VARIANT

<222> (4)..(4)

<223> /replace="Phe" or "His" or "Trp"

<220>

<221> misc_feature

<222> (4)..(4)

<223> /note="Residue given in the sequence has no preference with respect to those in the annotations for said position"

<220>

<221> VARIANT

<222> (6)..(6)

<223> /replace="Phe" or "Thr" or "His"

<220>

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<221> misc_feature
 <222> (6)..(6)
 <223> /note="Residue given in the sequence has no preference
 with respect to those in the annotations for said position"

<220>
 <221> VARIANT
 <222> (8)..(8)
 <223> /replace="Tyr" or "Phe" or "His" or "Leu"

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> /note="Residue given in the sequence has no preference
 with respect to those in the annotations for said position"

<400> 66
 Gln Gln Tyr Tyr Ser Tyr Pro Trp Thr
 1 5

<210> 67
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 consensus peptide"

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="Gly"

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> /note="Residue given in the sequence has no preference
 with respect to that in the annotation for said position"

<220>
 <221> VARIANT
 <222> (6)..(6)
 <223> /replace="Asp" or "Gln" or "Asn"

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> /note="Residue given in the sequence has no preference
 with respect to those in the annotations for said position"

<400> 67
 Trp Ala Ser Thr Arg Glu
 1 5

<210> 68
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 consensus peptide"

543895_SA9-029PC_Seq_List

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<220>
<221> VARIANT
<222> (8)..(8)
<223> /replace="His" or "Tyr" or "Phe"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="Gly"

<220>
<221> misc_feature
<222> (8)..(9)
<223> /note="Residues given in the sequence have no preference
with respect to those in the annotations for said positions"

<220>
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<222> (11)..(11)
<223> /replace="Asp"

<220>
<221> misc_feature
<222> (11)..(11)
<223> /note="Residue given in the sequence has no preference
with respect to that in the annotation for said position"

<220>
<221> VARIANT
<222> (13)..(13)
<223> /replace="Arg"

<220>
<221> misc_feature
<222> (13)..(13)
<223> /note="Residue given in the sequence has no preference
with respect to that in the annotation for said position"

<220>
<221> VARIANT
<222> (15)..(15)
<223> /replace="Tyr"

<220>
<221> misc_feature
<222> (15)..(15)
<223> /note="Residue given in the sequence has no preference
with respect to that in the annotation for said position"

<400> 68
Lys Ser Ser Gln Ser Leu Leu Trp Ser Ser Asn Gln Lys Asn His Leu
1          5          10          15

```

Ala

```

<210> 69
<211> 9
<212> PRT
<213> Artificial Sequence

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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

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consensus peptide"

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<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="Met"

<220>
<221> misc_feature
<222> (1)..(1)
<223> /note="Residue given in the sequence has no preference
with respect to that in the annotation for said position"
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```
<400> 69
Leu Gln Gly Thr His Phe Pro Tyr Thr
1          5
```

```
<210> 70
<211> 16
<212> PRT
<213> Artificial Sequence
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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
consensus peptide"
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<220>
<221> VARIANT
<222> (12)..(12)
<223> /replace="Glu"
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<220>
<221> misc_feature
<222> (12)..(12)
<223> /note="Residue given in the sequence has no preference
with respect to that in the annotation for said position"
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<400> 70
Lys Ser Ser Gln Ser Leu Leu Tyr Ser Asn Gly Lys Thr Tyr Leu Asn
1          5          10          15
```

```
<210> 71
<211> 9
<212> PRT
<213> Artificial Sequence
```

```
<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"
```

```
<220>
<221> source
<223> /note="C-term biotin"
```

```
<400> 71
Arg Pro Pro Gly Phe Ser Pro Phe Arg
1          5
```

```
<210> 72
<211> 9
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<212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="N-term KLH"

<400> 72
 Arg Pro Pro Gly Phe Ser Pro Phe Arg
 1 5

<210> 73
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="C-term KLH"

<400> 73
 Arg Pro Pro Gly Phe Ser Pro Phe Arg
 1 5

<210> 74
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="N-term biotin"

<400> 74
 Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg
 1 5 10

<210> 75
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

543895_SA9-029PC_Seq_List

<220>
 <221> source
 <223> /note="C-term biotin"

<400> 75
 Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg
 1 5 10

<210> 76
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="N-term KLH"

<400> 76
 Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg
 1 5 10

<210> 77
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="C-term KLH"

<400> 77
 Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg
 1 5 10

<210> 78
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="N-term biotin"

<400> 78
 Arg Pro Pro Gly Phe Ser Pro Phe
 1 5

543895_SA9-029PC_Seq_List

<210> 79
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="C-term biotin"

<400> 79
 Arg Pro Pro Gly Phe Ser Pro Phe
 1 5

<210> 80
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="N-term KLH"

<400> 80
 Arg Pro Pro Gly Phe Ser Pro Phe
 1 5

<210> 81
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="C-term KLH"

<400> 81
 Arg Pro Pro Gly Phe Ser Pro Phe
 1 5

<210> 82
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>

543895_SA9-029PC_Seq_List

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="N-term biotin"

<400> 82
Lys Arg Pro Pro Gly Phe Ser Pro Phe
1 5

<210> 83
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="C-term biotin"

<400> 83
Lys Arg Pro Pro Gly Phe Ser Pro Phe
1 5

<210> 84
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="N-term KLH"

<400> 84
Lys Arg Pro Pro Gly Phe Ser Pro Phe
1 5

<210> 85
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="C-term KLH"

543895_SA9-029PC_Seq_List

<400> 85

Lys Arg Pro Pro Gly Phe Ser Pro Phe
1 5

<210> 86

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> source

<223> /note="N-term biotin"

<400> 86

Arg Arg Pro Pro Gly Phe Ser Pro Phe Arg
1 5 10

<210> 87

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> source

<223> /note="C-term biotin"

<400> 87

Arg Arg Pro Pro Gly Phe Ser Pro Phe Arg
1 5 10

<210> 88

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> source

<223> /note="N-term KLH"

<400> 88

Arg Arg Pro Pro Gly Phe Ser Pro Phe Arg
1 5 10

<210> 89

<211> 10

543895_SA9-029PC_Seq_List

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="C-term KLH"

<400> 89
Arg Arg Pro Pro Gly Phe Ser Pro Phe Arg
1 5 10

<210> 90
<211> 9
<212> PRT
<213> Mus musculus

<400> 90
Arg Arg Pro Pro Gly Phe Ser Pro Phe
1 5

<210> 91
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="N-term biotin"

<400> 91
Arg Arg Pro Pro Gly Phe Ser Pro Phe
1 5

<210> 92
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="C-term biotin"

<400> 92
Arg Arg Pro Pro Gly Phe Ser Pro Phe
1 5

543895_SA9-029PC_Seq_List

<210> 93
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="N-term KLH"

<400> 93
 Arg Arg Pro Pro Gly Phe Ser Pro Phe
 1 5

<210> 94
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="C-term KLH"

<400> 94
 Arg Arg Pro Pro Gly Phe Ser Pro Phe
 1 5

<210> 95
 <211> 5
 <212> PRT
 <213> Unknown

<220>
 <221> source
 <223> /note="Description of Unknown: Bradykinin 1-5 peptide"

<400> 95
 Arg Pro Pro Gly Phe
 1 5

<210> 96
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> source
 <223> /note="N-term biotin"

543895_SA9-029PC_Seq_List

<400> 96

Arg Pro Pro Gly Phe
1 5

<210> 97

<211> 136

<212> PRT

<213> Mus musculus

<400> 97

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

Arg Ser Gly Ala Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn
20 25 30

Ile Lys Asp Tyr Tyr Leu His Trp Val Lys Gln Arg Pro Glu Gln Gly
35 40 45

Leu Glu Trp Ile Gly Trp Ile Asp Pro Glu Asn Gly Asp Thr Gly Tyr
50 55 60

Ala Arg Lys Phe Gln Gly Lys Ala Thr Met Thr Ala Asp Thr Ser Ser
65 70 75 80

Asn Thr Val Tyr Leu His Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala
85 90 95

Val Tyr Tyr Phe Asn Ala Trp Glu Tyr Asp Gly Tyr Tyr Asp Leu Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr
115 120 125

Pro Pro Ser Val Tyr Gly Ser Ser
130 135

<210> 98

<211> 134

<212> PRT

<213> Mus musculus

<400> 98

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

Gln Pro Gly Gly Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr
20 25 30

Phe Ser Asn Tyr Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly
35 40 45

Leu Glu Trp Val Ala Glu Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr
50 55 60

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His Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp
65 70 75 80

Ser Lys Ser Ser Val Tyr Leu Gln Met Asn Asn Leu Arg Ala Glu Asp
85 90 95

Thr Gly Ile Tyr Tyr Cys Ile Gly Glu Asp Tyr Gly Gly Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro
115 120 125

Ser Val Tyr Gly Ser Ser
130

<210> 99
<211> 136
<212> PRT
<213> Mus musculus

<400> 99
Leu Pro Glu Phe Glu Val Gln Leu Glu Glu Ser Gly Pro Glu Leu Val
1 5 10 15

Lys Pro Gly Thr Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser
20 25 30

Phe Thr Asp Tyr Asn Ile Tyr Trp Val Lys Gln Ser His Gly Lys Ser
35 40 45

Leu Glu Trp Ile Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr
50 55 60

Asn Gln Lys Phe Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser
65 70 75 80

Ser Thr Ala Phe Met His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala
85 90 95

Val Tyr Tyr Cys Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr
115 120 125

Pro Pro Ser Val Tyr Gly Ser Ser
130 135

<210> 100
<211> 137
<212> PRT
<213> Mus musculus

543895_SA9-029PC_Seq_List

<400> 100

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

Arg Ser Gly Ala Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn
20 25 30

Ile Lys Asp Tyr Tyr Met His Trp Val Lys Gln Arg Pro Glu Gln Gly
35 40 45

Leu Glu Trp Ile Gly Trp Val Asp Pro Glu Asn Gly Asp Ser Asp Tyr
50 55 60

Ala Pro Lys Phe Gln Gly Lys Ala Thr Met Thr Ala Asp Thr Ser Ser
65 70 75 80

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

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

Asp Phe Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr
115 120 125

Thr Pro Pro Ser Val Tyr Gly Ser Ser
130 135

<210> 101

<211> 137

<212> PRT

<213> Mus musculus

<400> 101

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

Arg Ser Gly Ala Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn
20 25 30

Ile Lys Asp Tyr Tyr Met His Trp Val Lys Gln Arg Pro Glu Gln Gly
35 40 45

Leu Glu Trp Ile Gly Trp Val Asp Pro Glu Asn Gly Asp Ser Asp Tyr
50 55 60

Ala Pro Lys Phe Gln Gly Lys Ala Thr Met Thr Ala Asp Thr Ser Ser
65 70 75 80

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

543895_SA9-029PC_Seq_List

Val Tyr Tyr Cys Asn Ala Phe Glu Tyr Asp Gly Asn Tyr Ser Pro Leu
 100 105 110

Asp Phe Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr
 115 120 125

Thr Pro Pro Ser Val Tyr Gly Ser Ser
 130 135

<210> 102
 <211> 133
 <212> PRT
 <213> Mus musculus

<400> 102
 Glu Leu Asp Ile Val Met Thr Gln Thr Thr Leu Thr Leu Ser Val Thr
 1 5 10 15

Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu
 20 25 30

Tyr Ser Asn Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly
 35 40 45

Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly
 50 55 60

Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
 65 70 75 80

Lys Ile Ile Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Leu
 85 90 95

Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu
 100 105 110

Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro Ser
 115 120 125

Lys Leu Glu Leu Tyr
 130

<210> 103
 <211> 134
 <212> PRT
 <213> Mus musculus

<400> 103
 Glu Leu Asp Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser
 1 5 10 15

Val Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu
 20 25 30

543895_SA9-029PC_Seq_List

Tyr Ser Ser Asp Gln Arg Asn Tyr Leu Ala Trp Tyr Gln Gln Arg Ser
35 40 45

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

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
65 70 75 80

Leu Thr Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys
85 90 95

Gln Gln Tyr Tyr Ser Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
100 105 110

Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro
115 120 125

Ser Lys Leu Glu Leu Tyr
130

<210> 104
<211> 134
<212> PRT
<213> Mus musculus

<400> 104
Glu Leu Asp Ile Val Met Thr Gln Thr Pro Ser Ser Leu Ala Val Ser
1 5 10 15

Val Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu
20 25 30

Tyr Thr Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
35 40 45

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

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
65 70 75 80

Leu Thr Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Ile Tyr Tyr Cys
85 90 95

Gln Gln Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu
100 105 110

Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro
115 120 125

Ser Lys Leu Glu Leu Tyr
130

543895_SA9-029PC_Seq_List

<210> 105
 <211> 133
 <212> PRT
 <213> Mus musculus

<400> 105
 Glu Leu Asp Ile Val Ile Thr Gln Thr Thr Leu Ser Leu Ser Val Pro
 1 5 10 15

Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Arg Gln Ser Leu Leu
 20 25 30

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

Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly
 50 55 60

Val Pro Asp Arg Phe Thr Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu
 65 70 75 80

Lys Ile Ser Arg Val Glu Ser Glu Asp Leu Gly Val Tyr Tyr Cys Met
 85 90 95

Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu
 100 105 110

Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro Ser
 115 120 125

Lys Leu Glu Leu Tyr
 130

<210> 106
 <211> 133
 <212> PRT
 <213> Mus musculus

<400> 106
 Glu Leu Asp Ile Val Ile Thr Gln Ser Thr Leu Thr Leu Ser Val Pro
 1 5 10 15

Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu
 20 25 30

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

Gln Ser Pro Lys Arg Gln Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly
 50 55 60

Val Pro Asp Arg Phe Thr Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu
 65 70 75 80

543895_SA9-029PC_Seq_List

Lys Ile Ser Arg Val Glu Ser Glu Asp Leu Gly Val Tyr Tyr Cys Met
85 90 95

Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu
100 105 110

Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro Ser
115 120 125

Lys Leu Glu Leu Tyr
130

<210> 107
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic primer"

<400> 107
aaaagcaggc ttaggagcgg ccgcatggc gtcccaggcc tcgctg 46

<210> 108
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic primer"

<400> 108
caagaaagct gggtcggatc cttataaagt tcccagaacc ctggtc 46

<210> 109
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 109
gcataccat acgacgtccc agactacgct 30

<210> 110
<211> 1005
<212> DNA
<213> Mus musculus

<400> 110
atggcgtccc aggctcgct gaagctacag ctttctaacc aaagccagca ggcccctccc 60

543895_SA9-029PC_Seq_List

aacatcacct cctgcgaggg cgccccggaa gcctgggata tgctgtgtcg ggtgctgcc	120
gggtttgtca tcaactgtctg tttctttggc ctctgggga accttttagt cctgtccttc	180
ttccttttgc cttggcgacg atggtggcag cagcggcggc agcgcctaac catagcagaa	240
atctacctgg ctaacttggc agcttctgat ctggtgtttg tgctgggcct gcccttctgg	300
gcagagaacg ttgggaaccg tttcaactgg ccctttggaa gtgacctctg ccgggtggtc	360
agcgggggtca tcaaggccaa cctgttcata agcatcttcc tgggtggtggc catcagtcag	420
gaccgctaca ggttgctggt ataccccatg accagctggg ggaaccggcg gcgacggcaa	480
gccaagtga cctgcctgct catctgggta gctggggggc tcttgagcac cccacgttc	540
cttctgcgtt ccgtcaaagt cgtccctgat ctgaacatct ctgcctgcat cctgcttttc	600
ccccacgaag cttggcactt tgtaaggatg gtggagtga acgttttggg tttcctcctc	660
ccattggctg ccacacctta cttcaacttt cacatcctgg cctccctgag aggacagaag	720
gaggccagca gaaccgggtg tgggggaccc aaggacagca agacaatggg gctgatcctc	780
acactggtag cctccttcct ggtctgctgg gcccttacc acttctttgc cttcctggat	840
ttcctggtcc aggtgagagt gatccaggac tgcttctgga aggagctcac agacctgggc	900
ctgcagctgg ccaacttctt tgcttttgtc aacagctgcc tgaaccact gatttatgtc	960
tttgaggcc ggctctttaa gaccagggtt ctgggaactt tataa	1005

<210> 111
 <211> 111
 <212> PRT
 <213> Mus musculus

<400> 111
 Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly
 1 5 10 15
 Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Lys Pro Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Ile Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu
 100 105 110

<210> 112

543895_SA9-029PC_Seq_List

<211> 105

<212> PRT

<213> Homo sapiens

<400> 112

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Leu Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Pro
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu
100 105

<210> 113

<211> 120

<212> PRT

<213> Mus musculus

<400> 113

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Asn Ile Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
50 55 60

Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Phe
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser

115

543895_SA9-029PC_Seq_List
120

<210> 114
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 114
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

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

Gln Gly Arg Val Thr Met Thr Arg Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Trp Gly Tyr Asp Tyr Asp Val Phe Tyr Tyr Ala Met Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 115
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 115
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15

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

Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

543895_SA9-029PC_Seq_List

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ser Thr Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 116

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 116

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Tyr Ser Ser Ser Ser Asp Ala Phe Asp Ile Trp Gly Gln
100 105 110

Gly Thr Met Val Thr Val Ser Ser
115 120

<210> 117

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

543895_SA9-029PC_Seq_List

<220>
 <221> source
 <223> /note="N-term biotin"

<400> 117
 Arg Pro Pro Gly Phe Ser Pro Phe Arg
 1 5

<210> 118
 <211> 127
 <212> PRT
 <213> Mus musculus

<400> 118
 Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala
 1 5 10 15

Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

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

Gly Trp Ile Asp Pro Glu Asn Gly Asp Thr Gly Tyr Ala Arg Lys Phe
 50 55 60

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

Leu His Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Phe
 85 90 95

Asn Ala Trp Glu Tyr Asp Gly Tyr Tyr Asp Leu Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser
 115 120 125

<210> 119
 <211> 125
 <212> PRT
 <213> Mus musculus

<400> 119
 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30

Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
 35 40 45

Ala Glu Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala Glu
 Page 47

50 543895_SA9-029PC_Seq_List 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ser
65 70 75 80

Val Tyr Leu Gln Met Asn Asn Leu Arg Ala Glu Asp Thr Gly Ile Tyr
85 90 95

Tyr Cys Ile Gly Glu Asp Tyr Gly Gly Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser
115 120 125

<210> 120
<211> 127
<212> PRT
<213> Mus musculus

<400> 120
Glu Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Thr
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Asn Ile Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
50 55 60

Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Phe
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser
115 120 125

<210> 121
<211> 128
<212> PRT
<213> Mus musculus

<400> 121
Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala
1 5 10 15

Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
Page 48

Tyr Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
35 40 45

Gly Trp Val Asp Pro Glu Asn Gly Asp Ser Asp Tyr Ala Pro Lys Phe
50 55 60

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

Leu Gln Phe Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Asn Ala Phe Glu Tyr Asp Gly Asn Tyr Ser Pro Leu Asp Phe Trp Gly
100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser
115 120 125

<210> 122
<211> 128
<212> PRT
<213> Mus musculus

<400> 122
Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala
1 5 10 15

Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

Tyr Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
35 40 45

Gly Trp Val Asp Pro Glu Asn Gly Asp Ser Asp Tyr Ala Pro Lys Phe
50 55 60

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

Leu Gln Phe Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Asn Ala Phe Glu Tyr Asp Gly Asn Tyr Ser Pro Leu Asp Phe Trp Gly
100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser
115 120 125

<210> 123
<211> 119
<212> PRT

543895_SA9-029PC_Seq_List

<213> Mus musculus

<400> 123

Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
 1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

Asn Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser
 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80

Ile Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Leu Gln Gly
 85 90 95

Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg Ala Asp Ala Ala Pro Thr
 115

<210> 124

<211> 120

<212> PRT

<213> Mus musculus

<400> 124

Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly
 1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

Ser Asp Gln Arg Asn Tyr Leu Ala Trp Tyr Gln Gln Arg Ser Gly Gln
 35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Tyr Ser Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

543895_SA9-029PC_Seq_List

Lys Arg Ala Asp Ala Ala Pro Thr
115 120

<210> 125
<211> 120
<212> PRT
<213> Mus musculus

<400> 125
Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly
1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Ser Pro Lys Pro Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Ile Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys Arg Ala Asp Ala Ala Pro Thr
115 120

<210> 126
<211> 120
<212> PRT
<213> Mus musculus

<400> 126
Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Ala Gly
1 5 10 15

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

Gly Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Gly Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

543895_SA9-029PC_Seq_List

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn
85 90 95

Asp His Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
100 105 110

Lys Arg Ala Asp Ala Ala Pro Thr
115 120

<210> 127
<211> 360
<212> DNA
<213> Mus musculus

<400> 127
gagatccagc tgcagcagtc tggacctgag ctggtgaagc ctgggacttc agtgaagggtg 60
tcctgcaagg cttctgggta ctcatcact gactacaaca tctactgggt gaaacagagc 120
catggaaaga gccttgagtg gattggatat tttgacctt acaatggtaa tactggctac 180
aaccagaagt tcaggggcaa ggccacattg actgttgaca agtcctccag cacagccttc 240
atgcatctca gcagcctgac atctgatgac tctgcagtct attactgtgc aaactactat 300
aggtatgacg accatgctat ggactattgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 128
<211> 339
<212> DNA
<213> Mus musculus

<400> 128
gacattgtga tgtcacagtc tccatcctcc ctagctgtgt cagttggaga gaagggttact 60
atgagctgca agtccagtc gagcctttta tatagtagca atcaaaagaa ctacttggcc 120
tggtaccagc agaaaccagg gcagtctcct aaaccgctga tttactgggc atccactagg 180
gaatctgggg tccctgatcg cttcacaggc agtggatctg ggacagattt cactctcacc 240
atcagcagtg tgaaggctga agacctggca atttattact gtcagcaata ttatagctat 300
ccgtggacgt tcggtggagg caccaagctg gaaatcaaa 339

<210> 129
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 129
cagattcagc tggtgcagtc tggcgccgaa gtgaagaaac ctggcgccag cgtgaagggtg 60
tcctgcaagg ccagcggcta cagcttcacc gactacaaca tctactgggt ccgacaggct 120
ccaggccagg gactggaatg gatcggctac ttcgaccctt acaacggcaa caccggctac 180

543895_SA9-029PC_Seq_List

aaccagaagt tccggggcag agccaccctg accgtggaca agagcaccag caccgcctac 240
 atggaactgc ggagcctgag aagcgacgac accgccgtgt actactgcgc caactactac 300
 agatacgacg accacgccat ggactactgg ggccagggca ccctgggtcac cgtgtcctct 360

<210> 130
 <211> 339
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 130
 gacatcgtga tgaccagag ccccgacagc ctggccgtgt ctctgggcga gcggggccacc 60
 atcaactgca agagcagcca gagcctgctg tactctagca accagaagaa ctacctggcc 120
 tggtatcagc agaagcccgg ccagcccccc aagcccctga tctactgggc cagcaccgcg 180
 gagagcggcg tgcccgatag attttccggc agcggctccg gcaccgactt caccctgacc 240
 atcagcagcc tgcaggccga ggacgtggcc gtgtactact gccagcagta ctacagctac 300
 ccctggacct tcggccaggg caccaaggtg gaaatcaag 339

<210> 131
 <211> 119
 <212> PRT
 <213> Mus musculus

<400> 131
 Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Pro Ile Gly
 1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60

Asp Arg Phe Thr Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80

Ser Arg Val Glu Ser Glu Asp Leu Gly Val Tyr Tyr Cys Met Gln Gly
 85 90 95

Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg Ala Asp Ala Ala Pro Thr
 115

543895_SA9-029PC_Seq_List

<210> 132
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 132
 Lys Arg Pro Pro
 1

<210> 133
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 133
 Arg Pro Pro Gly Phe Ser
 1 5

<210> 134
 <211> 220
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 134
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15

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

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Pro Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Tyr Ser Tyr Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
 115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 130 135 140

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Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
 145 150 155 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
 165 170 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
 180 185 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 195 200 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215 220

<210> 135

<211> 229

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 135

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
 20 25 30

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

Gly Tyr Phe Asp Pro Tyr Asn Gly Asn Thr Gly Tyr Asn Gln Lys Phe
 50 55 60

Arg Gly Arg Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Asn Tyr Tyr Arg Tyr Asp Asp His Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
 115 120 125

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
 130 135 140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
 Page 55

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Leu	Gln	Ser	Ser	Gly	Leu	Tyr
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					190	Pro
Ser	Ser	Ser	Leu	Gly	Thr	Gln
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				205		Lys
Pro	Ser	Asn	Thr	Lys	Val	Asp
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