SEQUENCE LISTING

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ZILKA, NORBERT

<120> PROTEIN-BASED THERAPY AND DIAGNOSIS OF TAU-MEDIATED PATHOLOGIES IN ALZHEIMER'S DISEASE

<130> 1163400010000

<150> US 61/536,339
<151> 2011-09-19

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<151> 2012-05-30

<160> 283

<170> PatentIn version 3.5

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Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys
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Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
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Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr
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Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser
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Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu
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Ser Lys

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

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

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

Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser
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<213> Homo sapiens

<400> 23
Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln
1 5 10 15

Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys
20 25 30

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<213> Homo sapiens

<400> 24
Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile
1   5   10   15

Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys
            20   25   30

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<213> Homo sapiens

<400> 25
Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile
1   5   10   15

Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly
            20   25   30

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<213> Homo sapiens

<400> 26
Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn
1   5   10   15

Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser
            20   25   30

<210> 27
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<213> Homo sapiens

<400> 27
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1   5   10   15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys
            20   25   30

<210> 28
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<213> Homo sapiens

<400> 28

Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys
1 5 10 15

Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp
20 25 30

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<213> Homo sapiens

<400> 29
Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu
1 5 10 15

Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
20 25 30

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<213> Homo sapiens

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Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys
1 5 10 15

Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser
20 25 30

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<213> Homo sapiens

<400> 31
Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly
1 5 10 15

Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val
20 25 30

<210> 32
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<213> Homo sapiens

<400> 32
Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser
1 5 10 15

Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln
20 25 30

<210> 33
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<213> Homo sapiens

<400> 33
Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys
1 5 10 15

Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile
20 25 30

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<213> Homo sapiens

<400> 34
Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp
1 5 10 15

Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val
20 25 30

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<213> Homo sapiens

<400> 35
Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
1 5 10 15

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr
20 25 30

<210> 36
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<213> Homo sapiens

<400> 36
Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile
1 5 10 15

Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys
20 25 30

<210> 37
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<213> Homo sapiens

<400> 37
Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys
1 5 10 15

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
20 25 30

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<400> 38
Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His
1 5 10 15

Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val
20 25 30

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Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val
1 5 10 15

Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
20 25 30

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<213> Homo sapiens

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Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro
1 5 10 15

Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu
20 25 30

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Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly
1   5   10   15

Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser
            20   25   30

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<400> 42
Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly
1   5   10   15

Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys
            20   25   30

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<400> 43
Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
1   5   10   15

Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val
            20   25   30

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<400> 44
Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser
1   5   10   15

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

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<213> Homo sapiens

<400> 45
Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln
1   5   10   15

Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys
            20   25   30

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Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile
1   5   10   15

Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys
            20   25   30

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Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val
1   5   10   15

Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly
            20   25   30

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<213> Homo sapiens

<400> 48
Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr
1   5   10   15

Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser
            20   25   30

<210> 49
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<213> Homo sapiens

<400> 49
Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys
1   5   10   15

Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
            20   25   30

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<400> 50
Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1   5   10   15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly
            20   25   30

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<213> Homo sapiens

<400> 51
Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val
1   5   10   15

Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn
            20   25   30

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<400> 52
Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys
1   5   10   15

Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
            20   25   30

<210> 53
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<213> Homo sapiens

<400> 53
Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly
1   5   10   15

Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val
            20   25   30

<210> 54
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<212> PRT
<213> Homo sapiens

<400> 54
Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser
1   5   10   15

Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu
            20   25   30

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<213> Homo sapiens

<400> 55
Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
1   5   10   15

Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val
            20   25   30

<210> 56
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<400> 56
Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly
1   5   10   15

Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys
            20   25   30

<210> 57
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<212> PRT
<213> Homo sapiens

<400> 57

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Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn
1               5                   10                  15

Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser
            20                  25                  30
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<213> Homo sapiens

<400> 58

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Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
1               5                   10                  15

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu
            20                  25                  30
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<210> 59
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<212> PRT
<213> Homo sapiens

<400> 59

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

His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys
            20                  25                  30
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<210> 60
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<212> PRT
<213> Homo sapiens

<400> 60

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

Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
            20                  25                  30
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<210> 61
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<212> PRT
<213> Homo sapiens

<400> 61

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Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys
1               5                   10                  15
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Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp
20 25 30

<210> 62
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<213> Homo sapiens

<400> 62
Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro
1 5 10 15

Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe
20 25 30

<210> 63
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<213> Homo sapiens

<400> 63
Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
1 5 10 15

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys
20 25 30

<210> 64
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<400> 64
Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
1 5 10 15

Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp
20 25 30

<210> 65
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<400> 65
Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly
1 5 10 15

Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
20 25 30

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

<400> 66
Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
1 5 10 15

Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val
20 25 30

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

<400> 67
Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val
1 5 10 15

Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln
20 25 30

<210> 68
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<212> PRT
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<400> 68
Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu
1 5 10 15

Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
20 25 30

<210> 69
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<400> 69
Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val
1 5 10 15

Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys
20 25 30

<210> 70
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<213> Homo sapiens

<400> 70
Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys
1   5   10   15

Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile
            20   25   30

<210> 71
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<213> Homo sapiens

<400> 71
Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser
1   5   10   15

Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly
            20   25   30

<210> 72
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<213> Homo sapiens

<400> 72
Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu
1   5   10   15

Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser
            20   25   30

<210> 73
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<212> PRT
<213> Homo sapiens

<400> 73
Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys
1   5   10   15

Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
            20   25   30

<210> 74
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<212> PRT
<213> Homo sapiens

<400> 74
His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
1   5   10   15

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp
            20   25   30

<210> 75
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<213> Homo sapiens

<400> 75
Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile
1   5   10   15

Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
            20   25   30

<210> 76
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<212> PRT
<213> Homo sapiens

<400> 76
Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly
1   5   10   15

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

<210> 77
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<212> PRT
<213> Homo sapiens

<400> 77
Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser
1   5   10   15

Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys
            20   25   30

<210> 78
<211> 30

<212> PRT
<213> Homo sapiens

<400> 78
Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
1   5   10   15

Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile
            20   25   30

<210> 79
<211> 30
<212> PRT
<213> Homo sapiens

<400> 79
Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp
1   5   10   15

Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu
            20   25   30

<210> 80
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<213> Homo sapiens

<400> 80
Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn
1   5   10   15

Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr
            20   25   30

<210> 81
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<213> Homo sapiens

<400> 81
Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
1   5   10   15

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His
            20   25   30

<210> 82
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<213> Homo sapiens

<400> 82
Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr
1 5 10 15

His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys
20 25 30

<210> 83
<211> 30
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<213> Homo sapiens

<400> 83
Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His
1 5 10 15

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

<210> 84
<211> 30
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<213> Homo sapiens

<400> 84
Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val
1 5 10 15

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

<210> 85
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<212> PRT
<213> Homo sapiens

<400> 85
Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro
1 5 10 15

Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe
20 25 30

<210> 86
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<212> PRT
<213> Homo sapiens

<400> 86

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Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
1               5                   10                  15


Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg
            20                  25                  30
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<210> 87
<211> 30
<212> PRT
<213> Homo sapiens

<400> 87

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Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
1               5                   10                  15


Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu
            20                  25                  30
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<210> 88
<211> 31
<212> PRT
<213> Homo sapiens

<400> 88

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Cys Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
1               5                   10                  15


Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
            20                  25                  30
```

<210> 89
<211> 30
<212> PRT
<213> Homo sapiens

<400> 89

```
Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
1               5                   10                  15


Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala
            20                  25                  30
```

<210> 90
<211> 30
<212> PRT
<213> Homo sapiens

<400> 90

```
Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys
1               5                   10                  15
```

Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys
20 25 30

<210> 91
<211> 30
<212> PRT
<213> Homo sapiens

<400> 91
Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys
1 5 10 15

Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
20 25 30

<210> 92
<211> 30
<212> PRT
<213> Homo sapiens

<400> 92
Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile
1 5 10 15

Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys
20 25 30

<210> 93
<211> 30
<212> PRT
<213> Homo sapiens

<400> 93
Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu
1 5 10 15

Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr
20 25 30

<210> 94
<211> 30
<212> PRT
<213> Homo sapiens

<400> 94
Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr
1 5 10 15

His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp
            20   25   30

<210> 95
<211> 30
<212> PRT
<213> Homo sapiens

<400> 95
Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His
1   5   10   15

Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His
            20   25   30

<210> 96
<211> 30
<212> PRT
<213> Homo sapiens

<400> 96
Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys
1   5   10   15

Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
            20   25   30

<210> 97
<211> 30
<212> PRT
<213> Homo sapiens

<400> 97
Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
1   5   10   15

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala
            20   25   30

<210> 98
<211> 7
<212> PRT
<213> Homo sapiens

<400> 98
Lys His Gln Pro Gly Gly Gly
1   5

<210> 99
<211> 7

<212> PRT
<213> Homo sapiens

<400> 99
Lys His Val Pro Gly Gly Gly
1 5

<210> 100
<211> 7
<212> PRT
<213> Homo sapiens

<400> 100
His His Lys Pro Gly Gly Gly
1 5

<210> 101
<211> 7
<212> PRT
<213> Homo sapiens

<400> 101
Thr His Val Pro Gly Gly Gly
1 5

<210> 102
<211> 441
<212> PRT
<213> Homo sapiens

<400> 102
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1 5 10 15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
20 25 30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95

```
Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
            100                 105                 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
        115                 120                 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
    130                 135                 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145                 150                 155                 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
                165                 170                 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
            180                 185                 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
        195                 200                 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225                 230                 235                 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
                245                 250                 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
            260                 265                 270

Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
        275                 280                 285

Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
    290                 295                 300

Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
305                 310                 315                 320

Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
                325                 330                 335
```

Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
340 345 350

Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
355 360 365

Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
370 375 380

Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser
385 390 395 400

Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
405 410 415

Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val
420 425 430

Ser Ala Ser Leu Ala Lys Gln Gly Leu
435 440

<210> 103
<211> 412
<212> PRT
<213> Homo sapiens

<400> 103
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1 5 10 15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
20 25 30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

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

Asp Thr Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala
85 90 95

```
Arg Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys
            100                 105                 110

Ala Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala
        115                 120                 125

Ala Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala
    130                 135                 140

Lys Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro
145                 150                 155                 160

Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr
                165                 170                 175

Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg
            180                 185                 190

Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser
        195                 200                 205

Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu
    210                 215                 220

Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln
225                 230                 235                 240

Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser
                245                 250                 255

Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro
            260                 265                 270

Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys
        275                 280                 285

Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
    290                 295                 300

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
305                 310                 315                 320
```

```
Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
                325                 330                 335

Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
            340                 345                 350

Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro
        355                 360                 365

Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser
    370                 375                 380

Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala
385                 390                 395                 400

Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
                405                 410
```

<210> 104
<211> 410
<212> PRT
<213> Homo sapiens

<400> 104

```
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1               5                   10                  15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20                  25                  30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
        35                  40                  45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
    50                  55                  60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65                  70                  75                  80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
                85                  90                  95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
            100                 105                 110
```

```
Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
        115                 120                 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
    130                 135                 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145                 150                 155                 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
                165                 170                 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
            180                 185                 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
        195                 200                 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225                 230                 235                 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
                245                 250                 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
            260                 265                 270

Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr
        275                 280                 285

Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly
    290                 295                 300

Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln
305                 310                 315                 320

Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly
                325                 330                 335

Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys
            340                 345                 350
```

Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val
        355   360   365

Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly
    370   375   380

Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu
385   390   395   400

Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
                405   410

<210> 105
<211> 383
<212> PRT
<213> Homo sapiens

<400> 105
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1   5   10   15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20   25   30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Ala Glu Glu Ala
        35   40   45

Gly Ile Gly Asp Thr Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val
    50   55   60

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

Asp Lys Lys Ala Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro
                85   90   95

Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg
            100   105   110

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

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
    130   135   140

```
Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro
145                 150                 155                 160

Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys
                165                 170                 175

Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met
            180                 185                 190

Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu
        195                 200                 205

Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu
    210                 215                 220

Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys
225                 230                 235                 240

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
                245                 250                 255

Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His
            260                 265                 270

Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe
        275                 280                 285

Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His
    290                 295                 300

Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe
305                 310                 315                 320

Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr
                325                 330                 335

Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn
            340                 345                 350

Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala
        355                 360                 365
```

```
Thr Leu Ala Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
    370                 375                 380


<210> 106
<211> 381
<212> PRT
<213> Homo sapiens

<400> 106
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1               5                  10                  15


Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20                  25                  30


Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
        35                  40                  45


Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
    50                  55                  60


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


Asp Thr Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala
                85                  90                  95


Arg Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys
            100                 105                 110


Ala Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala
        115                 120                 125


Ala Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala
    130                 135                 140


Lys Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro
145                 150                 155                 160


Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr
                165                 170                 175


Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg
            180                 185                 190
```

```
Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser
        195                 200                 205

Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu
    210                 215                 220

Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln
225                 230                 235                 240

Pro Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser
                245                 250                 255

Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro
            260                 265                 270

Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp
        275                 280                 285

Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro
    290                 295                 300

Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu
305                 310                 315                 320

Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser
                325                 330                 335

Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser
            340                 345                 350

Ser Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu
        355                 360                 365

Ala Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
    370                 375                 380


<210> 107
<211> 352
<212> PRT
<213> Homo sapiens

<400> 107
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1               5                   10                  15
```

```
Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20                  25                  30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Ala Glu Glu Ala
        35                  40                  45

Gly Ile Gly Asp Thr Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val
    50                  55                  60

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

Asp Lys Lys Ala Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro
                85                  90                  95

Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg
            100                 105                 110

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

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
    130                 135                 140

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro
145                 150                 155                 160

Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys
                165                 170                 175

Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met
            180                 185                 190

Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu
        195                 200                 205

Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val
    210                 215                 220

Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His
225                 230                 235                 240

His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp
                245                 250                 255
```

Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr
260 265 270

His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr
275 280 285

Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val
290 295 300

Tyr Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser
305 310 315 320

Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu
325 330 335

Ala Thr Leu Ala Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
340 345 350

<210> 108
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 108
Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser
1 5 10

<210> 109
<211> 29
<212> PRT
<213> Homo sapiens

<400> 109
Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His
1 5 10 15

His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu
20 25

<210> 110
<211> 30
<212> PRT
<213> Homo sapiens

<400> 110
Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
1 5 10 15

Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
20 25 30

<210> 111
<211> 12
<212> PRT
<213> Homo sapiens

<400> 111
Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
1 5 10

<210> 112
<211> 12
<212> PRT
<213> Homo sapiens

<400> 112
Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
1 5 10

<210> 113
<211> 8
<212> PRT
<213> Homo sapiens

<400> 113
Lys Val Gln Ile Ile Asn Lys Lys
1 5

<210> 114
<211> 29
<212> PRT
<213> Homo sapiens

<400> 114
Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
20 25

<210> 115
<211> 6
<212> PRT
<213> Homo sapiens

<400> 115
Val Gln Ile Val Tyr Lys
1 5

<210> 116
<211> 6
<212> PRT
<213> Homo sapiens

<400> 116
Val Gln Ile Ile Asn Lys
1 5

<210> 117
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 117
Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Asn Tyr
1 5 10

<210> 118
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 118
Trp Ala Ser
1

<210> 119
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 119
Lys Gln Ser Phe Tyr Leu Arg Thr
1 5

<210> 120
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 120
Gly Tyr Ile Phe Thr Asp Tyr Val Ile Ser
1 5 10

<210> 121
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 121
Ile Phe Pro Arg Ser Gly Ser Thr
1 5

<210> 122
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 122
Ala Arg Asp Tyr Tyr Gly Thr Ser Phe Ala Met Asp Tyr
1 5 10

<210> 123
<211> 13
<212> PRT
<213> Influenza A virus

<400> 123
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
1 5 10

<210> 124
<211> 13
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Any amino acid

<400> 124
Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala
1 5 10

<210> 125
<211> 16
<212> PRT
<213> Plasmodium falciparum

<400> 125
Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn Val
1 5 10 15

<210> 126
<211> 10
<212> PRT
<213> Hepatitis B virus

<400> 126
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile
1 5 10

<210> 127
<211> 19
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: Heat Shock
protein 65

<400> 127
Asp Gln Ser Ile Gly Asp Leu Leu Ala Glu Ala Met Asp Lys Val Gly
1 5 10 15

Asn Glu Gly

<210> 128
<211> 14
<212> PRT
<213> Mycobacterium bovis

<400> 128

Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu
1 5 10

<210> 129
<211> 15
<212> PRT
<213> Clostridium tetani

<400> 129
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
1 5 10 15

<210> 130
<211> 21
<212> PRT
<213> Clostridium tetani

<400> 130
Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
1 5 10 15

Ala Ser His Leu Glu
20

<210> 131
<211> 16
<212> PRT
<213> Human immunodeficiency virus

<400> 131
Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
1 5 10 15

<210> 132
<211> 29
<212> DNA
<213> Artificial Sequence

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

<400> 132
acattgtgat gtcacagtct ccatcctcc
29

<210> 133
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 133
ctcctccaat tgcagcagtc tgg
23

<210> 134
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 134
Asp Ile Val Met Ser Gln Ser Pro Ser Ser
1 5 10

<210> 135
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 135
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu
1 5 10

<210> 136
<211> 30
<212> DNA
<213> Artificial Sequence

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

<400> 136
ggaattcgtt gaagctcttg acaatgggtg
30

<210> 137
<211> 30
<212> DNA
<213> Artificial Sequence

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

<400> 137
ggaattcaca tatgcaaggc ttacaaccac
30

<210> 138
<211> 120
<212> PRT
<213> Artificial Sequence

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

<400> 138
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Thr
1 5 10 15

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

Val Ile Ser Trp Val Lys Gln Arg Thr Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Glu Ile Phe Pro Arg Ser Gly Ser Thr Tyr Tyr Asn Glu Lys Phe
50 55 60

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

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

Ala Arg Asp Tyr Tyr Gly Thr Ser Phe Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 139
<211> 120
<212> PRT
<213> Homo sapiens

<400> 139
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

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

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

Gly Gly Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr 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 Glu Asn His Cys Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 140
<211> 120
<212> PRT
<213> Artificial Sequence

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

<400> 140
Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser
1 5 10 15

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

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

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

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr 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 Asp Tyr Tyr Gly Thr Ser Phe Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 141
<211> 112
<212> PRT
<213> Artificial Sequence

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

<400> 141
Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala 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

Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro 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 Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Lys Gln
85 90 95

Ser Phe Tyr Leu Arg Thr Phe Gly Gly Gly Thr Lys Leu Asp Ile Lys
100 105 110

<210> 142
<211> 112
<212> PRT
<213> Homo sapiens

<400> 142
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

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 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100   105   110

<210> 143
<211> 112
<212> PRT
<213> Artificial Sequence

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

<400> 143
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 Asn Ser
            20   25   30

Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro 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 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 Lys Gln
                85   90   95

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

<210> 144
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 144
Ala Asn Ile Lys His Val Pro Gly Gly Gly Ser
1 5 10

<210> 145
<211> 120
<212> PRT
<213> Mus sp.

<400> 145
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala
1 5 10 15

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

Gly Ile Ser Trp Val Lys Gln Arg Thr Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Glu Ile Tyr Pro Arg Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
50 55 60

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

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

Ala Arg Asp Tyr Tyr Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 146
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 146
Asp Ala Ile Lys His Val Pro Gly Gly Gly Ser
1 5 10

<210> 147
<211> 120
<212> PRT
<213> Artificial Sequence

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

<400> 147
Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Val Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Met Pro Cys Lys Ala Ser Gly Tyr Ile Phe Ser Asp Tyr
20 25 30

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

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

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr 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 Asp Tyr Tyr Gly Thr Ser Tyr Gly Met Asp Val Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 148
<211> 120

<212> PRT
<213> Artificial Sequence

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

<400> 148
Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Val Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Met Pro Cys Lys Ala Ser Gly Tyr Ile Phe Ser Asp Tyr
20 25 30

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

Gly Glu Ile Phe Pro Arg Ser Gly Ser Thr Tyr Tyr Asn Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Tyr Tyr Gly Thr Ser Tyr Gly Met Asp Val Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 149
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 149
Asp Asn Ala Lys His Val Pro Gly Gly Gly Ser
1 5 10

<210> 150
<211> 112
<212> PRT
<213> Mus sp.

<400> 150
Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala 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

Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro 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 Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Lys Gln
85 90 95

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

<210> 151
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 151
Asp Asn Ile Ala His Val Pro Gly Gly Gly Ser
1 5 10

<210> 152
<211> 112
<212> PRT
<213> Artificial Sequence

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

<400> 152
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 Asn Ser
20 25 30

Arg 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

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 Lys Gln
85 90 95

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

<210> 153
<211> 112
<212> PRT
<213> Artificial Sequence

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

<400> 153
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 Ser Cys Lys Ser Ser Gln Ser Val Leu Asn Ser
20 25 30

Arg Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro 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 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 Lys Gln
85 90 95

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

<210> 154
<211> 6
<212> PRT
<213> Homo sapiens

<400> 154
His Val Pro Gly Gly Gly
1 5

<210> 155
<211> 29
<212> DNA
<213> Artificial Sequence

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

<400> 155
atattaccat ggacattgtg atgtcacag
29

<210> 156
<211> 32
<212> DNA
<213> Artificial Sequence

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

<400> 156
atattattct cgagggagac ggtgactgag gt
32

<210> 157
<211> 51
<212> DNA
<213> Artificial Sequence

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

<400> 157
ggcggcggcg gctccggtgg tggtggttcc atgcaggtcc aattgcagca g
51

<210> 158
<211> 69

<212> DNA
<213> Artificial Sequence

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

<400> 158
ggagccgccg ccgccagaac caccaccacc agaaccacca ccaccccgtt tgatgtccag
60

cttggtgcc
69

<210> 159
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 159
Asp Asn Ile Lys Ala Val Pro Gly Gly Gly Ser
1 5 10

<210> 160
<211> 17
<212> PRT
<213> Artificial Sequence

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

<400> 160
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
1 5 10 15

Tyr

<210> 161
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 161
Asp Asn Ile Lys His Ala Pro Gly Gly Gly Ser

1 5 10

<210> 162
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 162
Trp Val Lys Gln Arg Thr Gly Gln Gly Leu Glu Trp Ile Gly Glu
1 5 10 15

<210> 163
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 6xHis tag

<400> 163
His His His His His His
1 5

<210> 164
<211> 6
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Any amino acid

<400> 164
His Xaa Pro Gly Gly Gly
1 5

<210> 165
<211> 336
<212> DNA
<213> Artificial Sequence

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

polynucleotide

<400> 165
gacattgtga tgtcacagtc tccatcctcc ctggctgtgt cagcaggaga gaaggtcact
60

atgagctgca aatccagtca gagtctgctc aacagtagaa cccgaaagaa ctacctggct
120

tggtaccagc agaaaccagg gcagtctcct aaactgctga tctactgggc atccactagg
180

gaatctgggg tccctgatcg cttcacaggc agtggatctg ggacagattt cactctcacc
240

atcagcagtg tgcaggctga agacctggca gtttattact gcaagcaatc tttttatctt
300

cggacgttcg gtggaggcac caagctggac atcaaa
336

<210> 166
<211> 301
<212> DNA
<213> Artificial Sequence

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

<400> 166
gacattgtga tgtcacagtc tccatcctcc ctggctgtgt cagcaggaga gaaggtcact
60

atgagctgca aatccagtca gagtctgctc aacagtagaa cccgaaagaa ctacctggct
120

tggtaccagc agaaaccagg gcagtctcct aaactgctga tctactgggc atccactagg
180

gaatctgggg tccctgatcg cttcacaggc agtggatctg ggacagattt cactctcacc
240

atcagcagtg tgcaggctga agacctggca gtttattact gcaagcaatc tttttatctt
300

c
301

<210> 167
<211> 301
<212> DNA
<213> Mus sp.

<400> 167

gacattgtga tgtcacagtc tccatcctcc ctggctgtgt cagcaggaga gaaggtcact
60

atgagctgca aatccagtca gagtctgctc aacagtagaa cccgaaagaa ctacttggct
120

tggtaccagc agaaaccagg gcagtctcct aaactgctga tctactgggc atccactagg
180

gaatctgggg tccctgatcg cttcacaggc agtggatctg ggacagattt cactctcacc
240

atcagcagtg tgcaggctga agacctggca gtttattact gcaagcaatc ttataatctt
300

c
301

<210> 168
<211> 36
<212> DNA
<213> Artificial Sequence

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

<400> 168
ggacgttcgg tggaggcacc aagctggaca tcaaac
36

<210> 169
<211> 36
<212> DNA
<213> Mus sp.

<400> 169
ggacgttcgg tggaggcacc aagctggaaa tcaaac
36

<210> 170
<211> 360
<212> DNA
<213> Artificial Sequence

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

<400> 170
caggtccaat tgcagcagtc tggacctgag ctggtgaagc ctgggacttc agtgaagatg
60

ccctgtaagg cttctggata catattcact gactatgtca taagctgggt gaagcagaga
120

actggacagg gccttgagtg gattggagag atttttccta gaagtggtag tacttactac
180

aatgagaagt tcaagggcaa ggccacactg actgcagaca aatcctccaa cacagcctac
240

atgcagctca gcagcgtgac atctgaggac tctgcggtct atttctgtgc aagagattac
300

tacggtactt catttgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 171
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 171
Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser
1 5 10

<210> 172
<211> 294
<212> DNA
<213> Artificial Sequence

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

<400> 172
caggtccaat tgcagcagtc tggacctgag ctggtgaagc ctgggacttc agtgaagatg
60

ccctgtaagg cttctggata catattcact gactatgtca taagctgggt gaagcagaga
120

actggacagg gccttgagtg gattggagag atttttccta gaagtggtag tacttactac
180

aatgagaagt tcaagggcaa ggccacactg actgcagaca aatcctccaa cacagcctac
240

atgcagctca gcagcgtgac atctgaggac tctgcggtct atttctgtgc aaga
294

<210> 173
<211> 294
<212> DNA
<213> Mus sp.

<400> 173
caggttcagc tgcagcagtc tggagctgag ctggcgaggc ctggggcttc agtgaagctg
60

tcctgcaagg cttctggcta caccttcaca agctatggta taagctgggt gaagcagaga
120

actggacagg gccttgagtg gattggagag atttatccta gaagtggtaa tacttactac
180

aatgagaagt tcaagggcaa ggccacactg actgcagaca aatcctccag cacagcgtac
240

atggagctcc gcagcctgac atctgaggac tctgcggtct atttctgtgc aaga
294

<210> 174
<211> 14
<212> DNA
<213> Artificial Sequence

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

<400> 174
gattactacg gtac
14

<210> 175
<211> 15
<212> DNA
<213> Mus sp.

<400> 175
gactactata ggtac
15

<210> 176
<211> 53
<212> DNA
<213> Artificial Sequence

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

<400> 176
ttcatttgct atggactact ggggtcaagg aacctcagtc accgtctcct cag
53

<210> 177
<211> 53
<212> DNA

<213> Mus sp.

<400> 177
ttactatgct atggactact ggggtcaagg aacctcagtc accgtctcct cag
53

<210> 178
<211> 267
<212> DNA
<213> Artificial Sequence

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

<400> 178
gggctgatgc tgcaccaact gtatccatct tcccaccatc cagtgagcag ttaacatctg
60

gaggtgcctc agtcgtgtgc ttcttgaaca acttctaccc caaagacatc aatgtcaggt
120

ggaagattga tggcagtgaa cgacaaaatg gcgtcctgaa cagttggact gatcaggaca
180

gcaaagacag cacctacagc atgagcagca ccctcacgtt gaccaaggac gagtatgaac
240

gacataacag ctatacctgt gaggcca
267

<210> 179
<211> 276
<212> DNA
<213> Artificial Sequence

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

<400> 179
ccaaaacgac acccccatct gtctatccac tggcccctgg atctgctgcc caaactaact
60

ccatggtgac cctgggatgc ctggtcaagg gctatttccc tgagccagtg acagtgacct
120

ggaactctgg atccctgtcc agcggtgtgc acaccttccc agctgtcctg cagtctgacc
180

tctacactct gagcagctca gtgactgtcc cctccagcac ctggcccagc gagaccgtca
240

cctgcaacgt tgcccacccg gccagcagca ccaagg
276

<210> 180
<211> 305
<212> DNA
<213> Homo sapiens

<400> 180
gacatcgtga tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc
60

atcaactgca agtccagcca gagtgtttta tacagctcca acaataagaa ctacttagct
120

tggtaccagc agaaaccagg acagcctcct aagctgctca tttactgggc atctacccgg
180

gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc
240

atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtact
300

cctcc
305

<210> 181
<211> 38
<212> DNA
<213> Homo sapiens

<400> 181
gtggacgttc ggccaaggga ccaaggtgga aatcaaac
38

<210> 182
<211> 296
<212> DNA
<213> Homo sapiens

<400> 182
caggtccagc tggtgcagtc tggggctgag gtgaagaagc ctgggtcctc agtgaaggtc
60

tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc
120

cctggacaag ggcttgagtg gatgggaggg atcatcccta tccttggtat agcaaactac
180

gcacagaagt tccagggcag agtcacgatt accgcggaca aatccacgag cacagcctac
240

atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaga
296

<210> 183
<211> 51
<212> DNA
<213> Homo sapiens

<400> 183
ctgagctgag aaccactgtg ctaactgggg acacagtgat tggcagctct a
51

<210> 184
<211> 8
<212> PRT
<213> Homo sapiens

<400> 184
Cys Thr His Val Pro Gly Gly Gly
1 5

<210> 185
<211> 50
<212> DNA
<213> Homo sapiens

<400> 185
tgatgctttt gatgtctggg gccaagggac aatggtcacc gtctcttcag
50

<210> 186
<211> 357
<212> PRT
<213> Homo sapiens

<400> 186
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1 5 10 15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
20 25 30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95

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Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
            100                 105                 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
        115                 120                 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
    130                 135                 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145                 150                 155                 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
                165                 170                 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
            180                 185                 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
        195                 200                 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225                 230                 235                 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
                245                 250                 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
            260                 265                 270

Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
        275                 280                 285

Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
    290                 295                 300

Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
305                 310                 315                 320

Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
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325 330 335

Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
340 345 350

Lys Ile Gly Ser Leu
355

<210> 187
<211> 235
<212> PRT
<213> Homo sapiens

<400> 187
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1 5 10 15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
20 25 30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
100 105 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
115 120 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
130 135 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145 150 155 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro

```
                165                 170                 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
            180                 185                 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
        195                 200                 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Leu Ala Asp
    210                 215                 220

Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
225                 230                 235


<210> 188
<211> 346
<212> PRT
<213> Homo sapiens

<400> 188
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1               5                   10                  15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20                  25                  30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
        35                  40                  45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
    50                  55                  60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65                  70                  75                  80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
                85                  90                  95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
            100                 105                 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
        115                 120                 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
```

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    130                 135                 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145                 150                 155                 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
                165                 170                 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
            180                 185                 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
        195                 200                 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225                 230                 235                 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
                245                 250                 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
            260                 265                 270

Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
        275                 280                 285

Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
    290                 295                 300

Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly
305                 310                 315                 320

Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu
                325                 330                 335

Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
            340                 345

<210> 189
<211> 420
<212> PRT
```

<213> Homo sapiens

<400> 189

```
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1               5                  10                  15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20                  25                  30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
        35                  40                  45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
    50                  55                  60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65                  70                  75                  80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
                85                  90                  95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
            100                 105                 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
        115                 120                 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
    130                 135                 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145                 150                 155                 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
                165                 170                 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
            180                 185                 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
        195                 200                 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220
```

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225 230 235 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
245 250 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
260 265 270

Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
275 280 285

Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
290 295 300

Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
305 310 315 320

Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
325 330 335

Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
340 345 350

Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
355 360 365

Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
370 375 380

Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser
385 390 395 400

Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
405 410 415

Ile Asp Met Val
420

<210> 190
<211> 227
<212> PRT
<213> Homo sapiens

<400> 190
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1 5 10 15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
20 25 30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
100 105 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
115 120 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
130 135 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145 150 155 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
165 170 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
180 185 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
195 200 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
210 215 220

Lys Val Ala

225

<210> 191
<211> 428
<212> PRT
<213> Homo sapiens

<400> 191
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1 5 10 15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
20 25 30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
100 105 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
115 120 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
130 135 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145 150 155 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
165 170 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
180 185 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser

```
        195                 200                 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225                 230                 235                 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
                245                 250                 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
            260                 265                 270

Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
        275                 280                 285

Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Asp Leu Ser Lys
    290                 295                 300

Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
305                 310                 315                 320

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
                325                 330                 335

Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
            340                 345                 350

Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
        355                 360                 365

Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro
    370                 375                 380

Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser
385                 390                 395                 400

Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala
                405                 410                 415

Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
            420                 425
```

<210> 192
<211> 297
<212> PRT
<213> Homo sapiens

<400> 192
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1 5 10 15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
20 25 30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
100 105 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
115 120 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
130 135 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145 150 155 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
165 170 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
180 185 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
195 200 205

```
Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225                 230                 235                 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
                245                 250                 255

Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
            260                 265                 270

Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val
        275                 280                 285

Ser Ala Ser Leu Ala Lys Gln Gly Leu
    290                 295
```

<210> 193
<211> 136
<212> PRT
<213> Homo sapiens

<400> 193

```
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1               5                   10                  15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20                  25                  30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
        35                  40                  45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
    50                  55                  60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65                  70                  75                  80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
                85                  90                  95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
            100                 105                 110
```

```
Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
        115                 120                 125

Ser Lys Ser Lys Asp Gly Thr Gly
    130                 135
```

<210> 194
<211> 282
<212> PRT
<213> Homo sapiens

<400> 194

```
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1               5                   10                  15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20                  25                  30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
        35                  40                  45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
    50                  55                  60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65                  70                  75                  80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
                85                  90                  95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
            100                 105                 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
        115                 120                 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
    130                 135                 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145                 150                 155                 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
                165                 170                 175
```

```
Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
            180                 185                 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
        195                 200                 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225                 230                 235                 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
                245                 250                 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
            260                 265                 270

Gly Lys Val Gln Ile Ile Asn Lys Lys Leu
        275                 280
```

<210> 195
<211> 406
<212> PRT
<213> Homo sapiens

<400> 195

```
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1               5                   10                  15

Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
            20                  25                  30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
        35                  40                  45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
    50                  55                  60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65                  70                  75                  80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
                85                  90                  95
```

```
Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
            100                 105                 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
        115                 120                 125

Ser Lys Ser Lys Asp Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro
    130                 135                 140

Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser
145                 150                 155                 160

Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg
                165                 170                 175

Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala
            180                 185                 190

Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu
        195                 200                 205

Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys
    210                 215                 220

Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val
225                 230                 235                 240

Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys
                245                 250                 255

Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln
            260                 265                 270

Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly
        275                 280                 285

Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val
    290                 295                 300

Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly
305                 310                 315                 320

Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile
```

325 330 335

Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp
340 345 350

His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser Gly Asp Thr
355 360 365

Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met
370 375 380

Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val Ser Ala Ser
385 390 395 400

Leu Ala Lys Gln Gly Leu
405

<210> 196
<211> 222
<212> PRT
<213> Homo sapiens

<400> 196
Met Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser
1 5 10 15

Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro
20 25 30

Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys
35 40 45

His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp
50 55 60

Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His
65 70 75 80

Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu
85 90 95

Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys
100 105 110

Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys

```
        115                 120                 125

Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val
    130                 135                 140

Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg
145                 150                 155                 160

Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys
                165                 170                 175

Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val
            180                 185                 190

Ser Ser Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr
        195                 200                 205

Leu Ala Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
    210                 215                 220


<210> 197
<211> 315
<212> PRT
<213> Homo sapiens

<400> 197
Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala
1               5                   10                  15

Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala
            20                  25                  30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
        35                  40                  45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
    50                  55                  60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
65                  70                  75                  80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
                85                  90                  95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
```

```
            100                 105                 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
        115                 120                 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
    130                 135                 140

Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn
145                 150                 155                 160

Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly
                165                 170                 175

Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val
            180                 185                 190

Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
        195                 200                 205

Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val
    210                 215                 220

Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
225                 230                 235                 240

Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala
                245                 250                 255

Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val
            260                 265                 270

Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr
        275                 280                 285

Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp
    290                 295                 300

Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
305                 310                 315
```

<210> 198
<211> 96
<212> PRT

<213> Homo sapiens

<400> 198
Met Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys
1   5   10   15

Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn
            20   25   30

Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys
        35   40   45

Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn
    50   55   60

Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys
65   70   75   80

Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
                85   90   95

<210> 199
<211> 242
<212> PRT
<213> Homo sapiens

<400> 199
Met Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln
1   5   10   15

Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr
            20   25   30

Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr
        35   40   45

Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro
    50   55   60

Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val
65   70   75   80

Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr
                85   90   95

Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly

100 105 110

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

Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser
130 135 140

Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val
145 150 155 160

Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
165 170 175

Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser
180 185 190

Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
195 200 205

Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr
210 215 220

His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
225 230 235 240

Ala Glu

<210> 200
<211> 10
<212> PRT
<213> Homo sapiens

<400> 200
Asn Ile Lys Ala Val Pro Gly Gly Gly Ser
1 5 10

<210> 201
<211> 10
<212> PRT
<213> Homo sapiens

<400> 201
Asn Ile Lys His Val Pro Gly Gly Gly Ser
1 5 10

<210> 202
<211> 9
<212> PRT
<213> Homo sapiens

<400> 202
Ile Lys His Val Pro Gly Gly Gly Ser
1 5

<210> 203
<211> 9
<212> PRT
<213> Homo sapiens

<400> 203
Lys His Val Pro Gly Gly Gly Ser Val
1 5

<210> 204
<211> 9
<212> PRT
<213> Homo sapiens

<400> 204
His Val Pro Gly Gly Gly Ser Val Gln
1 5

<210> 205
<211> 8
<212> PRT
<213> Homo sapiens

<400> 205
Val Pro Gly Gly Gly Ser Val Gln
1 5

<210> 206
<211> 31
<212> PRT
<213> Artificial Sequence

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

<400> 206
Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn
1 5 10 15

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

<210> 207
<211> 30
<212> PRT
<213> Artificial Sequence

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

<400> 207
Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly
1 5 10 15

Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser
20 25 30

<210> 208
<211> 30
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (7)..(7)
<223> phospho-Ser

<400> 208
Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly
1 5 10 15

Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser
20 25 30

<210> 209
<211> 31
<212> PRT
<213> Homo sapiens

<400> 209
Cys Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
1 5 10 15
Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser
20 25 30

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

<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (7)..(7)
<223> phospho-Ser

<400> 210
Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly
1 5 10 15

Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser
20 25 30

<210> 211
<211> 30
<212> PRT
<213> Artificial Sequence

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

<400> 211
Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys
1 5 10 15

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

<210> 212
<211> 30
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (4)..(4)
<223> phospho-Ser

<400> 212
Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys
1 5 10 15

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

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

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

<400> 213
Cys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser
1 5 10 15

Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
20 25 30

<210> 214
<211> 30
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (4)..(4)
<223> phospho-Ser

<400> 214
Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys
1 5 10 15

Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
20 25 30

<210> 215
<211> 31
<212> PRT
<213> Artificial Sequence

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

<400> 215
Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser

1 5 10 15

Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val
20 25 30

<210> 216
<211> 31
<212> PRT
<213> Artificial Sequence

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

<400> 216
Cys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser
1 5 10 15

Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser
20 25 30

<210> 217
<211> 30
<212> PRT
<213> Artificial Sequence

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

<400> 217
Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Val Tyr
1 5 10 15

Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser
20 25 30

<210> 218
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 218
Cys Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser
1 5 10

<210> 219

<211> 25
<212> PRT
<213> Artificial Sequence

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

<400> 219
Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
1 5 10 15

Ile Lys His Val Pro Gly Gly Gly Ser
20 25

<210> 220
<211> 8
<212> PRT
<213> Homo sapiens

<400> 220
Cys His His Lys Pro Gly Gly Gly
1 5

<210> 221
<211> 30
<212> PRT
<213> Artificial Sequence

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

<400> 221
Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val
1 5 10 15

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

<210> 222
<211> 30
<212> PRT
<213> Artificial Sequence

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

<400> 222
Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser
1 5 10 15

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

<210> 223
<211> 6
<212> PRT
<213> Homo sapiens

<400> 223
His Gln Pro Gly Gly Gly
1   5

<210> 224
<211> 6
<212> PRT
<213> Homo sapiens

<400> 224
His Lys Pro Gly Gly Gly
1   5

<210> 225
<211> 104
<212> PRT
<213> Homo sapiens

<400> 225
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1   5   10   15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20   25   30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35   40   45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50   55   60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85   90   95

Thr His Val Pro Gly Gly Gly Asn
            100

<210> 226
<211> 104
<212> PRT
<213> Pan sp.

<400> 226
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1   5   10   15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20   25   30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35   40   45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50   55   60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85   90   95

Thr His Val Pro Gly Gly Gly Asn
            100

<210> 227
<211> 104
<212> PRT
<213> Macaca sp.

<400> 227
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1   5   10   15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20   25   30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35   40   45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50   55   60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
85 90 95

Thr His Val Pro Gly Gly Gly Ser
100

<210> 228
<211> 104
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: Gibbon
tau polypeptide

<400> 228
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
20 25 30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
35 40 45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
50 55 60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
85 90 95

Thr His Val Pro Gly Gly Gly Asn
100

<210> 229
<211> 104
<212> PRT
<213> Pongo sp.

<400> 229
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

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Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20                  25                  30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35                  40                  45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50                  55                  60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85                  90                  95

Thr His Val Pro Gly Gly Gly His
            100
```

<210> 230
<211> 104
<212> PRT
<213> Ailuropoda melanoleuca

<400> 230

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Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1               5                   10                  15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20                  25                  30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35                  40                  45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50                  55                  60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85                  90                  95

Thr His Val Pro Gly Gly Gly Asn
            100
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<210> 231
<211> 104
<212> PRT
<213> Sus sp.

<400> 231
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1   5   10   15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20   25   30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35   40   45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50   55   60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85   90   95

Thr His Val Pro Gly Gly Gly Asn
            100

<210> 232
<211> 104
<212> PRT
<213> Equus sp.

<400> 232
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1   5   10   15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20   25   30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35   40   45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50   55   60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
85 90 95

Thr His Val Pro Gly Gly Gly His
100

<210> 233
<211> 104
<212> PRT
<213> Canis lupus

<400> 233
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
20 25 30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
35 40 45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
50 55 60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
85 90 95

Thr His Val Pro Gly Gly Gly Asn
100

<210> 234
<211> 104
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: Rabbit
tau polypeptide

<400> 234
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20   25   30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35   40   45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50   55   60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85   90   95

Thr His Val Pro Gly Gly Gly Asn
            100

<210> 235
<211> 104
<212> PRT
<213> Rattus sp.

<400> 235
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1   5   10   15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20   25   30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35   40   45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50   55   60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85   90   95

Thr His Val Pro Gly Gly Gly Asn
            100

<210> 236
<211> 104
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: Vole
tau polypeptide

<400> 236
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
20 25 30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
35 40 45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
50 55 60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
85 90 95

Thr His Val Pro Gly Gly Gly Asn
100

<210> 237
<211> 104
<212> PRT
<213> Mus sp.

<400> 237
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
20 25 30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
35 40 45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
50 55 60

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


Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85                  90                  95


Thr His Val Pro Gly Gly Gly Asn
            100


<210> 238
<211> 104
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: Ground
      squirrel tau polypeptide

<400> 238
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1               5                   10                  15


Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20                  25                  30


Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
        35                  40                  45


Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
    50                  55                  60


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


Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
                85                  90                  95


Thr His Val Pro Gly Gly Gly Asn
            100


<210> 239
<211> 104
<212> PRT
<213> Bos sp.

<400> 239
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Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
20 25 30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
35 40 45

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
50 55 60

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

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
85 90 95

Thr His Val Pro Gly Gly Gly Asn
100

<210> 240
<211> 104
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: Fowl
tau polypeptide

<400> 240
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

Lys Leu Asp Phe Ser Ser Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
20 25 30

Ile Lys His Ile Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
35 40 45

Val Asp Leu Ser His Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
50 55 60

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

Asp Phe Lys Asp Lys Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
85 90 95

Ser His Val Pro Gly Gly Gly Asn
100

<210> 241
<211> 104
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: Finch
tau polypeptide

<400> 241
Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
1 5 10 15

Lys Leu Asp Phe Ser Ser Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
20 25 30

Ile Lys His Ile Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
35 40 45

Val Asp Leu Ser His Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
50 55 60

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

Asp Phe Lys Asp Lys Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
85 90 95

Ser His Val Pro Gly Gly Gly Asn
100

<210> 242
<211> 102
<212> PRT
<213> Danio rerio

<400> 242
Asn Ile Lys His Ala Pro Gly Gly Gly Asn Val Gln Ile Leu Asp Gln
1 5 10 15

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

```
Leu Lys His Val Pro Gly Gly Gly Lys Val Gln Ile Leu His Lys Lys
        35                  40                  45

Ile Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Leu
    50                  55                  60

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

Asp Phe Lys Ala Gln Ser Lys Ile Gly Ser Met Asp Asn Ile Lys His
                85                  90                  95

Thr Pro Gly Gly Gly Asn
            100
```

<210> 243
<211> 103
<212> PRT
<213> Xenopus laevis

<400> 243

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Asn Ile Arg His Gln Pro Gly Gly Gly Lys Val Gln Ile Val His Lys
1               5                   10                  15

Lys Val Asp Leu Gly Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
            20                  25                  30

Leu Lys His Val Pro Gly Gly Gly Ala Ile Gln Ile Thr His Lys Pro
        35                  40                  45

Ile Asp Leu Thr Arg Val Thr Ser Lys Cys Gly Ser Phe Val Asn Ile
    50                  55                  60

His His Lys Pro Gly Gly Gly Asn Val Glu Leu Lys Ser Glu Lys Leu
65                  70                  75                  80

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

His Val Pro Gly Gly Gly Ala
            100
```

<210> 244
<211> 101

<212> PRT
<213> Drosophila sp.

<400> 244
Asn Ala Thr Tyr Lys Pro Gly Gly Gly His Val Lys Ile Glu Ser Lys
1 5 10 15

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

Tyr Met Pro Lys Gly Gly Glu Lys Lys Ile Val Thr Thr Lys Leu Gln
35 40 45

Trp Asn Ala Lys Ser Lys Ile Gly Ser Leu Glu Asn Ala Ala His Lys
50 55 60

Pro Gly Gly Gly Asp Lys Lys Ile Glu Thr Leu Lys Met Asp Phe Lys
65 70 75 80

Asp Lys Ala Lys Pro Lys Val Gly Ser Thr Ala Asn Val Lys His Gln
85 90 95

Pro Gly Gly Gly Asp
100

<210> 245
<211> 97
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: Roundworm
tau polypeptide

<400> 245
Asn His Lys Ala Gly Gly Gly Asn Val Glu Ile Phe Ser Glu Lys Arg
1 5 10 15

Leu Tyr Asn Ala Gln Ser Lys Val Gly Ser Leu Lys Asn Ala Thr His
20 25 30

Val Ala Gly Gly Gly Asn Val Gln Ile Glu Asn Arg Lys Leu Asp Phe
35 40 45

Ser Ala Ala Ser Pro Lys Val Gly Ser Lys Thr Asn Tyr Gln Pro Ala
50 55 60

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

Ser Lys Val Gly Ser Met Asp Asn Ala Ala His Lys Pro Ala Gly Gly
85 90 95

Asn

<210> 246
<211> 113
<212> PRT
<213> Artificial Sequence

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

<400> 246
Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln
1 5 10 15

Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly
20 25 30

Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile
35 40 45

Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser
50 55 60

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

Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser
85 90 95

Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu
100 105 110

Thr

<210> 247
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 247
Gln Ser Leu Leu Ala Ser Arg Thr Arg Lys Asn Tyr
1 5 10

<210> 248
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 248
Gln Ser Leu Leu Asn Ser Ala Thr Arg Lys Asn Tyr
1 5 10

<210> 249
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 249
Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Asn Ala
1 5 10

<210> 250
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 250
Gly Trp Ser Ile His Ser Pro Gly Gly Gly Ser Cys
1 5 10

<210> 251
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 251
Ser Val Phe Gln His Leu Pro Gly Gly Gly Ser Cys
1 5 10

<210> 252
<211> 17
<212> PRT
<213> Artificial Sequence

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

<400> 252
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
1 5 10 15

Ala

<210> 253
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 253
Ala Ala Ser
1

<210> 254
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 254
Ala Gln Ser Phe Tyr Leu Arg Thr
1 5

<210> 255
<211> 8
<212> PRT
<213> Artificial Sequence

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

peptide

<400> 255
Lys Ala Ser Phe Tyr Leu Arg Thr
1 5

<210> 256
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 256
Lys Gln Ala Phe Tyr Leu Arg Thr
1 5

<210> 257
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 257
Lys Gln Ser Ala Tyr Leu Arg Thr
1 5

<210> 258
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 258
Lys Gln Ser Phe Ala Leu Arg Thr
1 5

<210> 259
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 259
Lys Gln Ser Phe Tyr Ala Arg Thr
1 5

<210> 260
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 260
Lys Gln Ser Phe Tyr Leu Ala Thr
1 5

<210> 261
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 261
Gly Tyr Ile Phe Thr Asp Ala Val Ile Ser
1 5 10

<210> 262
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 262
Gly Tyr Ile Phe Thr Asp Tyr Ala Ile Ser
1 5 10

<210> 263
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 263
Trp Val Lys Gln Arg Thr Gly Gln Gly Leu Glu Trp Ile Gly Ala

1 5 10 15

<210> 264
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 264
Ile Ala Pro Arg Ser Gly Ser Thr
1 5

<210> 265
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 265
Ile Phe Pro Arg Ser Gly Ala Thr
1 5

<210> 266
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 266
Ala Arg Ala Tyr Tyr Gly Thr Ser Phe Ala Met Asp Tyr
1 5 10

<210> 267
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 267
Ala Arg Asp Ala Tyr Gly Thr Ser Phe Ala Met Asp Tyr
1 5 10

<210> 268
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 268
Ala Arg Asp Tyr Ala Gly Thr Ser Phe Ala Met Asp Tyr
1 5 10

<210> 269
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 269
Ala Arg Asp Tyr Tyr Ala Thr Ser Phe Ala Met Asp Tyr
1 5 10

<210> 270
<211> 12
<212> PRT
<213> Homo sapiens

<400> 270
Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys
1 5 10

<210> 271
<211> 7
<212> PRT
<213> Homo sapiens

<400> 271
Lys His Gln Pro Gly Gly Gly
1 5

<210> 272
<211> 6
<212> PRT
<213> Homo sapiens

<400> 272
His Gln Pro Gly Gly Gly
1 5

<210> 273
<211> 5
<212> PRT

<213> Homo sapiens

<400> 273
His Gln Pro Gly Gly
1   5

<210> 274
<211> 5
<212> PRT
<213> Homo sapiens

<400> 274
Gln Pro Gly Gly Gly
1   5

<210> 275
<211> 42
<212> PRT
<213> Homo sapiens

<400> 275

Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn
1   5   10   15

Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp
            20   25   30

Asn Ile Lys His Val Pro Gly Gly Gly Ser
        35   40

<210> 276
<211> 7
<212> PRT
<213> Homo sapiens

<400> 276
Lys His Val Pro Gly Gly Gly
1   5

<210> 277
<211> 6
<212> PRT
<213> Homo sapiens

<400> 277
His Val Pro Gly Gly Gly
1   5

<210> 278
<211> 5
<212> PRT
<213> Homo sapiens

<400> 278
His Val Pro Gly Gly

1 5

<210> 279
<211> 5
<212> PRT
<213> Homo sapiens

<400> 279
Val Pro Gly Gly Gly
1 5

<210> 280
<211> 19
<212> PRT
<213> Homo sapiens

<400> 280
Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr
1 5 10 15

Lys Pro Val

<210> 281
<211> 7
<212> PRT
<213> Homo sapiens

<400> 281
His His Lys Pro Gly Gly Gly
1 5

<210> 282
<211> 6
<212> PRT
<213> Homo sapiens

<400> 282
His Lys Pro Gly Gly Gly
1 5

<210> 283
<211> 7
<212> PRT
<213> Homo sapiens

<400> 283
Thr His Val Pro Gly Gly Gly
1 5