

SEQUENCE LISTING

<110> SANOFI-AVENTIS DEUTSCHLAND GMBH

<120> VARIANTS OF PORCINE TRYPSIN

<130> 589-276 PCT

<150> EP18158034.1

<151> 2018-02-22

<160> 130

<170> PatentIn version 3.5

<210> 1

<211> 223

<212> PRT

<213> Sus scrofa

<400> 1

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Phe Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Trp Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 2

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant S172A

<400> 2

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Phe Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Trp Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 3

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Generic sequence of porcine trypsin with variable positions at amino acid positions 24, 44, 56, 78, 99, 107, 125, 131, 170, 172 and 193

<220>

<221> MISC_FEATURE

<222> (24)..(24)

<223> Xaa is selected from the group consisting of Ala, Asn, Arg, Gln, Ile, Leu, Lys, Met, Phe, Ser, Thr, and Val

<220>

<221> MISC_FEATURE
 <222> (44)..(44)
 <223> Xaa is selected from the group consisting of Leu, Pro, and Ser

<220>
 <221> MISC_FEATURE
 <222> (56)..(56)
 <223> Xaa is selected from the group consisting of Ala, Asn, Asp, His, and Trp

<220>
 <221> MISC_FEATURE
 <222> (78)..(78)
 <223> Xaa is selected from the group consisting of Ala, Glu, Gly, Pro, Ser, and Tyr

<220>
 <221> MISC_FEATURE
 <222> (99)..(99)
 <223> Xaa is selected from the group consisting of Ala, Arg, Asn, Asp, Glu, Gly, His, Leu, Phe, Thr, Trp, and Tyr

<220>
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 <223> Xaa is selected from the group consisting of Arg, Asp, Gly, Pro, Ser, and Thr

<220>
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 <222> (125)..(125)
 <223> Xaa is selected from the group consisting of Ala, Cys, Gln, Glu, Gly, His, Leu, Lys, Ser, and Tyr

<220>
 <221> MISC_FEATURE
 <222> (131)..(131)
 <223> Xaa is selected from the group consisting of Ala, Asn, Asp, Cys, Gln; Glu, Gly, His, Ile, Leu, Met, Ser, Thr, Trp, Tyr, and Val

<220>
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 <222> (170)..(170)
 <223> Xaa is selected from the group consisting of Ala, Asn, Gly, Lys, and Tyr

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 <222> (172)..(172)
 <223> Xaa is selected from the group consisting of Ala, Cys, Ser, and Thr

<220>
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<222> (193)..(193)

<223> Xaa is selected from the group consisting of Phe, Ser, Thr, Trp, and Tyr

<400> 3

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Xaa Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Xaa Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Xaa Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Xaa Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Xaa Val Ala Thr Val Ser Leu Pro Xaa Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Xaa Ser Ser Gly
115 120 125

Ser Ser Xaa Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Xaa Asp Xaa Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Xaa Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 4
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 4

<400> 4

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 5
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 5

<400> 5

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Leu Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 6
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 6

<400> 6

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Phe Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 7

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 7

<400> 7

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Trp Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 8
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 8

<400> 8

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Gly Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 9
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 9

<400> 9

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Tyr Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 10
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 10

<400> 10

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Thr Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 11
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 11

<400> 11

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 12
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 12

<400> 12

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asp Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 13
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 13

<400> 13

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Glu Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 14
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 14

<400> 14

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser His Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 15
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 15

<400> 15

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 16
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 16

<400> 16

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Gly Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 17
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 17

<400> 17

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Tyr Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 18
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 18

<400> 18

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 19
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 19

<400> 19

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 20

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 20

<400> 20

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Glu Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 21
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 21

<400> 21

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr His Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 22
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 22

<400> 22

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Leu Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 23
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 23

<400> 23

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Gln Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 24
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 24

<400> 24

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Tyr Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 25
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 25

<400> 25

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 26
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 26

<400> 26

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Gly Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 27
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 27

<400> 27

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Asn Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 28
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 28

<400> 28

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Val Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 29
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 29

<400> 29

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Leu Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 30

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 30

<400> 30

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Ser Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 31
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 31

<400> 31

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Gln Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 32
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 32

<400> 32

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 33
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 33

<400> 33

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 34

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 34

<400> 34

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Ala Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 35
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 35

<400> 35

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Leu Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 36
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 36

<400> 36

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 37
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 37

<400> 37

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Thr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 38
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 38

<400> 38

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Cys Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 39
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 39

<400> 39

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Asn Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 40
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 40

<400> 40

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Glu Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 41
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 41

<400> 41

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser His Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 42
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 42

<400> 42

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 43

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 43

<400> 43

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Thr Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 44
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 44

<400> 44

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 45
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 45

<400> 45

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Cys Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 46
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 46

<400> 46

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Ala Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 47
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 47

<400> 47

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Ile Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 48
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 48

<400> 48

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Met Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 49
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 49

<400> 49

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Thr Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 50
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 50

<400> 50

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Asn Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 51
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 51

<400> 51

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Lys Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 52

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 52

<400> 52

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Leu Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 53
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 53

<400> 53

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 54
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 54

<400> 54

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Ala Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 55
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 55

<400> 55

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

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

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 56

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 56

<400> 56

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asn Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 57

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 57

<400> 57

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 58
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 58

<400> 58

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Pro Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 59
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 59

<400> 59

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Gly Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 60
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 60

<400> 60

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Ser Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 61

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 61

<400> 61

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Asp Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 62
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 62

<400> 62

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Val Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 63

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 63

<400> 63

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Ile Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 64
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 64

<400> 64

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Trp Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 65

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 65

<400> 65

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Gly Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 66
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 66

<400> 66

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Ser Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 67
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 67

<400> 67

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Gln Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 68
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 68

<400> 68

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Asp Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 69
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 69

<400> 69

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Phe Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 70

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 70

<400> 70

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Tyr Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 71
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 71

<400> 71

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Thr Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 72
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 72

<400> 72

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Ser Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 73
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 73

<400> 73

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Ala Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 74

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 74

<400> 74

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 75
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 75

<400> 75

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Tyr Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 76
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 76

<400> 76

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Glu Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 77
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 77

<400> 77

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 78
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 78

<400> 78

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 79

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 79

<400> 79

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser His Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
 115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 80
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 80

<400> 80

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
 115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 81
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 81

<400> 81

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 82
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 82

<400> 82

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser His Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 83

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 83

<400> 83

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 84

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 84

<400> 84

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 85
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 85

<400> 85

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 86
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 86

<400> 86

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 87
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 87

<400> 87

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 88
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 88

<400> 88

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 89
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 89

<400> 89

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 90

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 90

<400> 90

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 91
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 91

<400> 91

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 92

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 92

<400> 92

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 93
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 93

<400> 93

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 94
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 94

<400> 94

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 95
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 95

<400> 95

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser His Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 96
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 96

<400> 96

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser His Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 97
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 97

<400> 97

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 98
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 98

<400> 98

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ser Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 99

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 99

<400> 99

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 100
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 100

<400> 100

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 101
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 101

<400> 101

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 102

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 102

<400> 102

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 103
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 103

<400> 103

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ser Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 104
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 104

<400> 104

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 105
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 105

<400> 105

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 106

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 106

<400> 106

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 107
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 107

<400> 107

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 108

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 108

<400> 108

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 109
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 109

<400> 109

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 110

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 110

<400> 110

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser His Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Cys Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 111
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 111

<400> 111

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 112
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 112

<400> 112

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Pro Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ser Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 113
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 113

<400> 113

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 114
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 114

<400> 114

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ser Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 115
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 115

<400> 115

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 116
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 116

<400> 116

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ser Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 117

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 117

<400> 117

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Asn Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 118
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 118

<400> 118

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

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

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ala Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 119
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 119

<400> 119

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Pro Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile His Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Ala Val Ala Thr Val Ser Leu Pro Thr Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Ala Ser Ser Gly
115 120 125

Ser Ser Met Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 120
<211> 223
<212> PRT
<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 120

<400> 120

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Pro Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 121
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 121

<400> 121

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
 145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Ile Asp Ala Cys Gln Gly Asp
 165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
 180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 122
 <211> 223
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Porcine trypsin variant no. 122

<400> 122

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Phe Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 123
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 123

<400> 123

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Gly Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 124

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 124

<400> 124

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Lys Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 125
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 125

<400> 125

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Asp Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 126

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 126

<400> 126

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Glu Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 127
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Porcine trypsin variant no. 127

<400> 127

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Tyr Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220

<210> 128

<211> 223

<212> PRT

<213> Artificial Sequence

<220>

<223> Porcine trypsin variant no. 128

<400> 128

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Pro Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Ser Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
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<211> 223

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<213> Artificial Sequence

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<223> Porcine trypsin variant no. 129

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Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
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Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Asn Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
 195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
 210 215 220

<210> 130
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 <212> PRT
 <213> Artificial Sequence

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<400> 130

Ile Val Gly Gly Tyr Thr Cys Ala Ala Asn Ser Ile Pro Tyr Gln Val
 1 5 10 15

Ser Leu Asn Ser Gly Ser His Arg Cys Gly Gly Ser Leu Ile Asn Ser
 20 25 30

Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Ser Arg Ile Gln Val
 35 40 45

Arg Leu Gly Glu His Asn Ile Asp Val Leu Glu Gly Asn Glu Gln Phe
 50 55 60

Ile Asn Ala Ala Lys Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr
 65 70 75 80

Leu Asp Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Pro Ala Thr Leu
 85 90 95

Asn Ser Arg Val Ala Thr Val Ser Leu Pro Arg Ser Cys Ala Ala Ala
 100 105 110

Gly Thr Glu Cys Leu Ile Ser Gly Trp Gly Asn Thr Lys Ser Ser Gly
 115 120 125

Ser Ser Tyr Pro Ser Leu Leu Gln Cys Leu Lys Ala Pro Val Leu Ser
 130 135 140

Asp Ser Ser Cys Lys Ser Ser Tyr Pro Gly Gln Ile Thr Gly Asn Met
145 150 155 160

Ile Cys Val Gly Phe Leu Glu Gly Gly Lys Asp Ala Cys Gln Gly Asp
165 170 175

Ser Gly Gly Pro Val Val Cys Asn Gly Gln Leu Gln Gly Ile Val Ser
180 185 190

Cys Gly Tyr Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys
195 200 205

Val Cys Asn Tyr Val Asn Trp Ile Gln Gln Thr Ile Ala Ala Asn
210 215 220