

SEQUENCE LISTING

<110> HANGZHOU SUMGEN BIOTECH CO., LTD.; SUMGEN MAB (BEIJING) BIOTECH CO., LTD.

<120> FUSION PROTEIN BINDING TO CD47 PROTEIN AND APPLICATION THEREOF

<130> 0070-PA-009

<160> 68

<170> PatentIn version 3.5

<210> 1

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> M1

<400> 1

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

Glu	Thr	Ala	Thr	Leu	Arg	Cys	Thr	Ala	Thr	Ser	Leu	Leu	Pro	Ile	Gly
			20					25					30		

Pro	Ile	Gln	Trp	Phe	Arg	Gly	Ala	Gly	Pro	Gly	Arg	Ile	Leu	Ile	Tyr
		35				40						45			

Asn	Gln	Lys	Lys	Gly	His	Phe	Pro	Arg	Val	Thr	Thr	Leu	Ser	Asp	Ser
	50					55					60				

Thr	Arg	Arg	Gly	Asn	Met	Asp	Phe	Ser	Ile	Arg	Ile	Gly	Asn	Ile	Thr
65				70						75				80	

Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Val	Lys	Phe	Arg	Lys	Gly	Ser
			85					90						95	

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

Arg Ala Lys Pro Ser
115

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

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

Asn Ser Arg His Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Ile Gly
20 25 30

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

Asn Gln Arg Lys Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Gln Leu Ile Tyr
35 40 45

Asn Gln Lys Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser
115

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gln Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
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1 5 10 15

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg His Leu Ile Tyr
35 40 45

Asn Arg Arg His Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Ile Leu Ile Tyr
35 40 45

Asn Gly Lys Arg Gly His Phe Pro Arg Val Thr Thr Leu Ser Asp Thr
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Arg Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser
115

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Met Leu Ile Tyr
35 40 45

Asn Gly Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser His Ser
50 55 60

Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

<210> 11
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<400> 11

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser His Ser
50 55 60

Thr Arg Arg Asn Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Gln Leu Ile Tyr
35 40 45

Asn Gln Lys Asp Gly His Phe Pro Arg Val Thr Thr Ala Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser
115

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<212> PRT
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<400> 13

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Ser
50 55 60

Thr Lys Arg Lys Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

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<212> PRT
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<223> M102

<400> 14

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Val Ser Arg Ser
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser
115

<210> 15
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<212> PRT
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<400> 15

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Arg Leu Ile Tyr
35 40 45

Asn Asn Arg Gly Gly His Phe Pro Arg Val Thr Thr Leu Ser Glu Thr
50 55 60

Thr Arg Arg Asp Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

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<212> PRT
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<400> 16

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

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

Asn Ser Arg His Gly His Phe Pro Arg Val Thr Thr Ala Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

<210> 17

<211> 117

<212> PRT

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<223> M126

<400> 17

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Ile Gly
20 25 30

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

Asn Gln Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Glu Thr
50 55 60

Thr Arg Arg Glu Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

<210> 18
<211> 117
<212> PRT
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<220>
<223> M130

<400> 18

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gln Arg Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Glu Ser
50 55 60

Thr Arg Arg Asp Asn Met Asp Phe Ser Ile Arg Ile Arg Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

<210> 19
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> M135

<400> 19

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Leu Leu Ile Tyr
35 40 45

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Leu Ser Glu Thr
50 55 60

Thr Arg Arg Gly Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

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<212> PRT
<213> Artificial Sequence

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<223> M145

<400> 20

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

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<212> PRT
<213> Artificial Sequence

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<400> 21

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Ile Leu Ile Tyr
35 40 45

Asn Gln Lys Lys Gly His Phe Pro Arg Val Thr Thr Leu Ser Asp Ser
50 55 60

Thr Arg Arg Gly Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

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<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M5

<400> 22

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

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

Asn Ser Arg His Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 23
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<400> 23

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Ile Gly
20 25 30

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

Asn Gln Arg Lys Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 24

<211> 350

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<400> 24

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Gln Leu Ile Tyr
35 40 45

Asn Gln Lys Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 25

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<400> 25

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gln Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 26
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M41

<400> 26

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg His Leu Ile Tyr
35 40 45

Asn Arg Arg His Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 27
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M57

<400> 27

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Ile Leu Ile Tyr
35 40 45

Asn Gly Lys Arg Gly His Phe Pro Arg Val Thr Thr Leu Ser Asp Thr
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Arg Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 28
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M67

<400> 28

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Met Leu Ile Tyr
35 40 45

Asn Gly Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 29
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M81

<400> 29

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 30
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M82

<400> 30

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser His Ser
50 55 60

Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 31
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M84

<400> 31

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser His Ser
50 55 60

Thr Arg Arg Asn Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 32
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M91

<400> 32

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Gln Leu Ile Tyr
35 40 45

Asn Gln Lys Asp Gly His Phe Pro Arg Val Thr Thr Ala Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 33
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M99

<400> 33

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Ser
50 55 60

Thr Lys Arg Lys Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 34
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M102

<400> 34

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Val Ser Arg Ser
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 35
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M111

<400> 35

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Arg Leu Ile Tyr
35 40 45

Asn Asn Arg Gly Gly His Phe Pro Arg Val Thr Thr Leu Ser Glu Thr
50 55 60

Thr Arg Arg Asp Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 36
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M122

<400> 36

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

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

Asn Ser Arg His Gly His Phe Pro Arg Val Thr Thr Ala Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 37
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M126

<400> 37

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Ile Gly
20 25 30

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

Asn Gln Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Glu Thr
50 55 60

Thr Arg Arg Glu Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 38
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M130

<400> 38

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gln Arg Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Glu Ser
50 55 60

Thr Arg Arg Asp Asn Met Asp Phe Ser Ile Arg Ile Arg Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 39
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M135

<400> 39

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Leu Leu Ile Tyr
35 40 45

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Leu Ser Glu Thr
50 55 60

Thr Arg Arg Gly Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 40

<211> 350

<212> PRT

<213> Artificial Sequence

<220>

<223> SS002M145

<400> 40

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 41
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M1G4

<400> 41

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Ile Leu Ile Tyr
35 40 45

Asn Gln Lys Lys Gly His Phe Pro Arg Val Thr Thr Leu Ser Asp Ser
50 55 60

Thr Arg Arg Gly Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 42
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M5G4

<400> 42

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

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

Asn Ser Arg His Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 43
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M12G4

<400> 43

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Ile Gly
20 25 30

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

Asn Gln Arg Lys Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 44
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M35G4

<400> 44

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Gln Leu Ile Tyr
35 40 45

Asn Gln Lys Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 45
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M37G4

<400> 45

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gln Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 46
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M41G4

<400> 46

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg His Leu Ile Tyr
35 40 45

Asn Arg Arg His Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 47
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M57G4

<400> 47

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Ile Leu Ile Tyr
35 40 45

Asn Gly Lys Arg Gly His Phe Pro Arg Val Thr Thr Leu Ser Asp Thr
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Arg Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 48
<211> 346

<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M67G4

<400> 48

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Met Leu Ile Tyr
35 40 45

Asn Gly Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 49

<211> 346

<212> PRT

<213> Artificial Sequence

<220>

<223> SS002M81G4

<400> 49

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 50

<211> 346

<212> PRT

<213> Artificial Sequence

<220>

<223> SS002M82G4

<400> 50

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser His Ser
50 55 60

Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 51

<211> 346

<212> PRT

<213> Artificial Sequence

<220>

<223> SS002M84G4

<400> 51

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser His Ser
50 55 60

Thr Arg Arg Asn Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 52
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M91G4

<400> 52

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Gln Leu Ile Tyr
35 40 45

Asn Gln Lys Asp Gly His Phe Pro Arg Val Thr Thr Ala Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 53
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M99G4

<400> 53

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Ser
50 55 60

Thr Lys Arg Lys Asn Met Asp Phe Ser Ile Arg Ile His Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 54
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M102G4

<400> 54

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Val Ser Arg Ser
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

Pro Asp Asp Ile Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
100 105 110

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 55
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M111G4

<400> 55

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

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

Asn Ser Arg His Gly His Phe Pro Arg Val Thr Thr Ala Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 56
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M122G4

<400> 56

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

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

Asn Ser Arg His Gly His Phe Pro Arg Val Thr Thr Ala Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 57
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M126G4

<400> 57

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Ile Gly
20 25 30

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

Asn Gln Arg Asp Gly His Phe Pro Arg Val Thr Thr Val Ser Glu Thr
50 55 60

Thr Arg Arg Glu Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 58
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M130G4

<400> 58

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gln Arg Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Glu Ser
50 55 60

Thr Arg Arg Asp Asn Met Asp Phe Ser Ile Arg Ile Arg Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 59
<211> 346
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002M135G4

<400> 59

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Val Pro Val Gly
20 25 30

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Leu Leu Ile Tyr
35 40 45

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Leu Ser Glu Thr
50 55 60

Thr Arg Arg Gly Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
65 70 75 80

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 60

<211> 346

<212> PRT

<213> Artificial Sequence

<220>

<223> SS002M145G4

<400> 60

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Leu Pro Ile Gly
20 25 30

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

Asn Gly Lys Gly Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
115 120 125

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
130 135 140

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
145 150 155 160

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
165 170 175

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
180 185 190

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
195 200 205

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
210 215 220

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
225 230 235 240

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
245 250 255

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
260 265 270

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
275 280 285

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
290 295 300

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
305 310 315 320

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
325 330 335

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345

<210> 61
<211> 350
<212> PRT
<213> Artificial Sequence

<220>
<223> SS002

<400> 61

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr
115 120 125

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
130 135 140

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
145 150 155 160

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
165 170 175

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
180 185 190

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
195 200 205

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
210 215 220

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
225 230 235 240

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
245 250 255

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
260 265 270

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
275 280 285

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
290 295 300

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
305 310 315 320

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
325 330 335

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
340 345 350

<210> 62
<211> 504
<212> PRT
<213> Artificial Sequence

<220>
<223> Human SIRP   variant 1

<400> 62

Met Glu Pro Ala Gly Pro Ala Pro Gly Arg Leu Gly Pro Leu Leu Cys
1 5 10 15

Leu Leu Leu Ala Ala Ser Cys Ala Trp Ser Gly Val Ala Gly Glu Glu
20 25 30

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

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

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu Ile Tyr
65 70 75 80

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
85 90 95

Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
100 105 110

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
115 120 125

Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
130 135 140

Arg Ala Lys Pro Ser Ala Pro Val Val Ser Gly Pro Ala Ala Arg Ala
145 150 155 160

Thr Pro Gln His Thr Val Ser Phe Thr Cys Glu Ser His Gly Phe Ser
165 170 175

Pro Arg Asp Ile Thr Leu Lys Trp Phe Lys Asn Gly Asn Glu Leu Ser
180 185 190

Asp Phe Gln Thr Asn Val Asp Pro Val Gly Glu Ser Val Ser Tyr Ser
195 200 205

Ile His Ser Thr Ala Lys Val Val Leu Thr Arg Glu Asp Val His Ser
210 215 220

Gln Val Ile Cys Glu Val Ala His Val Thr Leu Gln Gly Asp Pro Leu
225 230 235 240

Arg Gly Thr Ala Asn Leu Ser Glu Thr Ile Arg Val Pro Pro Thr Leu
245 250 255

Glu Val Thr Gln Gln Pro Val Arg Ala Glu Asn Gln Val Asn Val Thr
260 265 270

Cys Gln Val Arg Lys Phe Tyr Pro Gln Arg Leu Gln Leu Thr Trp Leu
275 280 285

Glu Asn Gly Asn Val Ser Arg Thr Glu Thr Ala Ser Thr Val Thr Glu
290 295 300

Asn Lys Asp Gly Thr Tyr Asn Trp Met Ser Trp Leu Leu Val Asn Val
305 310 315 320

Ser Ala His Arg Asp Asp Val Lys Leu Thr Cys Gln Val Glu His Asp
325 330 335

Gly Gln Pro Ala Val Ser Lys Ser His Asp Leu Lys Val Ser Ala His
340 345 350

Pro Lys Glu Gln Gly Ser Asn Thr Ala Ala Glu Asn Thr Gly Ser Asn
355 360 365

Glu Arg Asn Ile Tyr Ile Val Val Gly Val Val Cys Thr Leu Leu Val
370 375 380

Ala Leu Leu Met Ala Ala Leu Tyr Leu Val Arg Ile Arg Gln Lys Lys
385 390 395 400

Ala Gln Gly Ser Thr Ser Ser Thr Arg Leu His Glu Pro Glu Lys Asn
405 410 415

Ala Arg Glu Ile Thr Gln Asp Thr Asn Asp Ile Thr Tyr Ala Asp Leu
420 425 430

Asn Leu Pro Lys Gly Lys Lys Pro Ala Pro Gln Ala Ala Glu Pro Asn
435 440 445

Asn His Thr Glu Tyr Ala Ser Ile Gln Thr Ser Pro Gln Pro Ala Ser
450 455 460

Glu Asp Thr Leu Thr Tyr Ala Asp Leu Asp Met Val His Leu Asn Arg
465 470 475 480

Thr Pro Lys Gln Pro Ala Pro Lys Pro Glu Pro Ser Phe Ser Glu Tyr
485 490 495

Ala Ser Val Gln Val Pro Arg Lys
500

<210> 63
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Truncated domain of human SIRP  variant 1

<400> 63

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

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro Val Gly
20 25 30

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

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
50 55 60

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

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
85 90 95

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

Arg Ala Lys Pro Ser
115

<210> 64
<211> 373
<212> PRT
<213> Artificial Sequence

<220>
<223> Extracellular domain of human SIRP $\diamond\diamond$ domain

<400> 64

Met Glu Pro Ala Gly Pro Ala Pro Gly Arg Leu Gly Pro Leu Leu Cys
1 5 10 15

Leu Leu Leu Ala Ala Ser Cys Ala Trp Ser Gly Val Ala Gly Glu Glu
20 25 30

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

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

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu Ile Tyr
65 70 75 80

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
85 90 95

Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
100 105 110

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
115 120 125

Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
130 135 140

Arg Ala Lys Pro Ser Ala Pro Val Val Ser Gly Pro Ala Ala Arg Ala
145 150 155 160

Thr Pro Gln His Thr Val Ser Phe Thr Cys Glu Ser His Gly Phe Ser
165 170 175

Pro Arg Asp Ile Thr Leu Lys Trp Phe Lys Asn Gly Asn Glu Leu Ser
180 185 190

Asp Phe Gln Thr Asn Val Asp Pro Val Gly Glu Ser Val Ser Tyr Ser
195 200 205

Ile His Ser Thr Ala Lys Val Val Leu Thr Arg Glu Asp Val His Ser
210 215 220

Gln Val Ile Cys Glu Val Ala His Val Thr Leu Gln Gly Asp Pro Leu
225 230 235 240

Arg Gly Thr Ala Asn Leu Ser Glu Thr Ile Arg Val Pro Pro Thr Leu
245 250 255

Glu Val Thr Gln Gln Pro Val Arg Ala Glu Asn Gln Val Asn Val Thr
260 265 270

Cys Gln Val Arg Lys Phe Tyr Pro Gln Arg Leu Gln Leu Thr Trp Leu
275 280 285

Glu Asn Gly Asn Val Ser Arg Thr Glu Thr Ala Ser Thr Val Thr Glu
290 295 300

Asn Lys Asp Gly Thr Tyr Asn Trp Met Ser Trp Leu Leu Val Asn Val
305 310 315 320

Ser Ala His Arg Asp Asp Val Lys Leu Thr Cys Gln Val Glu His Asp
325 330 335

Gly Gln Pro Ala Val Ser Lys Ser His Asp Leu Lys Val Ser Ala His
340 345 350

Pro Lys Glu Gln Gly Ser Asn Thr Ala Ala Glu Asn Thr Gly Ser Asn
355 360 365

Glu Arg Asn Ile Tyr
370

<210> 65
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> IgV domain

<400> 65

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

Arg Cys Thr Ala Thr Ser Leu Ile Pro Val Gly Pro Ile Gln Trp Phe
20 25 30

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

His Phe Pro Arg Val Thr Thr Val Ser Asp Leu Thr Lys Arg Asn Asn
50 55 60

Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr Pro Ala Asp Ala Gly
65 70 75 80

Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser Pro Asp Asp Val Glu
85 90 95

Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val Arg
100 105

<210> 66
<211> 293
<212> PRT
<213> Artificial Sequence

<220>

<223> Human CD47

<400> 66

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

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

Cys Asn Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala
35 40 45

Gln Asn Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp
50 55 60

Ile Tyr Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp
65 70 75 80

Phe Ser Ser Ala Lys Ile Glu Val Ser Gln Leu Leu Lys Gly Asp Ala
85 90 95

Ser Leu Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr
100 105 110

Thr Cys Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu
115 120 125

Leu Lys Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu
130 135 140

Ile Val Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe
145 150 155 160

Gly Ile Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr
165 170 175

Ile Ala Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val
180 185 190

Gly Ala Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr
195 200 205

Gly Leu Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His
210 215 220

Tyr Tyr Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala
225 230 235 240

Ile Leu Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu
245 250 255

Ser Leu Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile
260 265 270

Ser Gly Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr
275 280 285

Met Lys Phe Val Glu
290

<210> 67
<211> 233
<212> PRT
<213> Artificial Sequence

<220>
<223> IgG1-FC

<400> 67

Leu Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10 15

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
20 25 30

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
35 40 45

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

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
65 70 75 80

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
85 90 95

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
100 105 110

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
115 120 125

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu
130 135 140

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
145 150 155 160

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
165 170 175

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
180 185 190

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
195 200 205

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
210 215 220

Lys Ser Leu Ser Leu Ser Pro Gly Lys
225 230

<210> 68
<211> 229
<212> PRT
<213> Artificial Sequence

<220>
<223> IgG4-FC

<400> 68

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
1 5 10 15

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

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
35 40 45

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

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
65 70 75 80

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
85 90 95

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
100 105 110

Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
115 120 125

Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
130 135 140

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
145 150 155 160

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
165 170 175

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
180 185 190

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
195 200 205

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
210 215 220

Leu Ser Leu Gly Lys
225