

SEQUENCE LISTING

<110> VHSquared Limited
 <120> Constructs
 <130> VHS-P1861PC
 <160> 38
 <170> BiSSAP 1.3
 <210> 1
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Polypeptide sequence of linker used in constructs ID3A and ID55F
 <400> 1
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15
 Gly Gly Gly Ser
 20
 <210> 2
 <211> 11
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Polypeptide sequence of linker used in constructs ID25A and ID57F
 <400> 2
 Gly Gly Gly Gly Ser Lys Gly Gly Gly Gly Ser
 1 5 10
 <210> 3
 <211> 13
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Polypeptide sequence of linker used in constructs ID26A and ID58F
 <400> 3
 Gly Gly Gly Gly Ser Asp Lys Asp Gly Gly Gly Gly Ser
 1 5 10
 <210> 4
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Polypeptide sequence of linker used in constructs ID27A and ID59F
 <400> 4
 Gly Gly Gly Gly Ser Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser
 1 5 10 15
 <210> 5
 <211> 12
 <212> PRT
 <213> Artificial Sequence
 <220>

eof-seq1

<223> Polypeptide sequence of linker used in constructs ID28A and ID60F

<400> 5

Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Lys
1 5 10

<210> 6

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of linker used in construct ID56F

<400> 6

Arg Gly Gly Gly Gly Ser Arg Gly Gly Gly Gly Ser Arg
1 5 10

<210> 7

<211> 242

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of ID3A construct

<400> 7

Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Ile Ser Gly Met Asp Phe Ser His Lys
20 25 30
Pro Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45
Ala Ser Ile Thr Thr Arg Ala Ser Thr His Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn
85 90 95
Ser Glu Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly
100 105 110
Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
115 120 125
Gly Gly Ser Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln
130 135 140
Pro Gly Gly Ser Leu Arg Leu Ser Cys Val Ile Ser Gly Met Asp Phe
145 150 155 160
Ser His Lys Pro Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
165 170 175
Glu Phe Val Ala Ser Ile Thr Thr Arg Ala Ser Thr His Tyr Ala Asp
180 185 190
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
195 200 205
Val Tyr Leu Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr
210 215 220
Ser Cys Asn Ser Glu Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
225 230 235 240
Ser Ser

<210> 8

<211> 233

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of ID25A construct

eo1f-seq1

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<400> 8
Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1      5      10
Ser Leu Arg Leu Ser Cys Val Ile Ser Gly Met Asp Phe Ser His Lys
20      25      30
Pro Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35      40      45
Ala Ser Ile Thr Thr Arg Ala Ser Thr His Tyr Ala Asp Ser Val Lys
50      55      60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65      70      75      80
Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn
85      90      95
Ser Glu Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Gly
100      105      110
Gly Gly Gly Ser Lys Gly Gly Gly Gly Ser Asp Val Gln Leu Gln Glu
115      120      125
Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
130      135      140
Val Ile Ser Gly Met Asp Phe Ser His Lys Pro Ala Gly Trp Phe Arg
145      150      155      160
Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ser Ile Thr Thr Arg
165      170      175      180
Ala Ser Thr His Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
185      190
Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Glu Met Asn Ser Leu Lys
195      200      205
Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn Ser Glu Tyr Tyr Trp Gly
210      215      220
Gln Gly Thr Gln Val Thr Val Ser Ser
225      230

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<210> 9

<211> 235

<212> PRT

<213> Artificial sequence

<220>

<223> Polypeptide sequence of ID26A construct

<400> 9

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Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1      5      10
Ser Leu Arg Leu Ser Cys Val Ile Ser Gly Met Asp Phe Ser His Lys
20      25      30
Pro Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35      40      45
Ala Ser Ile Thr Thr Arg Ala Ser Thr His Tyr Ala Asp Ser Val Lys
50      55      60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65      70      75      80
Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn
85      90      95
Ser Glu Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Gly
100      105      110
Gly Gly Gly Ser Asp Lys Asp Gly Gly Gly Gly Ser Asp Val Gln Leu
115      120      125
Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
130      135      140
Ser Cys Val Ile Ser Gly Met Asp Phe Ser His Lys Pro Ala Gly Trp
145      150      155      160
Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ser Ile Thr
165      170      175      180
Thr Arg Ala Ser Thr His Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
185      190
Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Glu Met Asn Ser
195      200      205
Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn Ser Glu Tyr Tyr
210      215      220

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eof-seq1

210 215 220
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
225 230 235

<210> 10
<211> 237
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide sequence of ID27A construct

<400> 10
Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Ile Ser Gly Met Asp Phe Ser His Lys
20 25 30
Pro Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45
Ala Ser Ile Thr Thr Arg Ala Ser Thr His Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn
85 90 95
Ser Glu Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Gly
100 105 110
Gly Gly Gly Ser Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Asp Val
115 120 125
Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
130 135 140
Arg Leu Ser Cys Val Ile Ser Gly Met Asp Phe Ser His Lys Pro Ala
145 150 155 160
Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ser
165 170 175
Ile Thr Thr Arg Ala Ser Thr His Tyr Ala Asp Ser Val Lys Gly Arg
180 185 190
Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Glu Met
195 200 205
Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn Ser Glu
210 215 220
Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
225 230 235

<210> 11
<211> 234
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide sequence of ID28A construct

<400> 11
Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Ile Ser Gly Met Asp Phe Ser His Lys
20 25 30
Pro Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45
Ala Ser Ile Thr Thr Arg Ala Ser Thr His Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn
85 90 95
Ser Glu Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Lys
100 105 110
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Lys Asp Val Gln Leu Gln

[illegible]

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<210> 12
<211> 268
<212> PRT
<213> Artificial Sequence
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<220>
<223> Polypeptide sequence of ID55F construct

<400>	12														
Glu 1	Val	Gln	Leu	Val 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Glu	Ser	Gly 15	Ala
Ser	Leu	Arg	Leu 20	Ser	Cys	Val	Thr	Ser 25	Gly	His	Ile	Phe	Lys 30	Leu	Tyr
Gly	Met	Gly 35	Trp	Phe	Arg	Gln	Ala 40	Pro	Gly	Lys	Asp	Arg 45	Glu	Phe	Val
Ala	Ala 50	Val	Thr	Trp	Asn	Gly 55	Pro	Ser	Thr	Glu	Tyr 60	Ala	Asp	Ser	Val
Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Lys	Asp	Asn	Asp 75	Arg	Asn	Thr	Leu	Tyr 80
Leu	Gln	Met	Asn	Ser 85	Leu	Lys	Pro	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Ser	Ser 100	Ile	Met	Gly	Ile	Tyr 105	Thr	Thr	Pro	Asp	Arg 110	Tyr	Glu
Tyr	Trp	Gly 115	Gln	Gly	Thr	Gln	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Gly 140	Gly	Gly	Gly	Ser
Glu 145	Val	Gln	Leu	Val	Glu 150	Ser	Gly	Gly	Gly	Leu 155	Val	Glu	Ser	Gly	Ala 160
Ser	Leu	Arg	Leu	Ser 165	Cys	Val	Thr	Ser	Gly 170	His	Ile	Phe	Lys	Leu 175	Tyr
Gly	Met	Gly	Trp 180	Phe	Arg	Gln	Ala	Pro 185	Gly	Lys	Asp	Arg	Glu 190	Phe	Val
Ala	Ala	Val 195	Thr	Trp	Asn	Gly	Pro 200	Ser	Thr	Glu	Tyr	Ala 205	Asp	Ser	Val
Lys	Gly 210	Arg	Phe	Thr	Ile	Ser 215	Lys	Asp	Asn	Asp	Arg 220	Asn	Thr	Leu	Tyr
Leu 225	Gln	Met	Asn	Ser	Leu 230	Lys	Pro	Glu	Asp	Thr 235	Ala	Val	Tyr	Tyr	Cys 240
Ala	Arg	Ser	Ser	Ile 245	Met	Gly	Ile	Tyr	Thr 250	Thr	Pro	Asp	Arg	Tyr 255	Glu
Tyr	Trp	Gly	Gln 260	Gly	Thr	Gln	Val	Thr 265	Val	Ser	Ser				

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<210> 13
<211> 259
<212> PRT
<213> Artificial Sequence
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<220>
<223> Polypeptide sequence of ID57F construct

eo1f-seq1

<400> 13

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Glu Ser Gly Ala
1      5      10      15
Ser Leu Arg Leu Ser Cys Val Thr Ser Gly His Ile Phe Lys Leu Tyr
20      25      30
Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
35      40      45
Ala Ala Val Thr Trp Asn Gly Pro Ser Thr Glu Tyr Ala Asp Ser Val
50      55      60
Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn Asp Arg Asn Thr Leu Tyr
65      70      75      80
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85      90      95
Ala Arg Ser Ser Ile Met Gly Ile Tyr Thr Thr Pro Asp Arg Tyr Glu
100      105      110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly
115      120      125
Ser Lys Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
130      135      140
Gly Leu Val Glu Ser Gly Ala Ser Leu Arg Leu Ser Cys Val Thr Ser
145      150      155      160
Gly His Ile Phe Lys Leu Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro
165      170      175
Gly Lys Asp Arg Glu Phe Val Ala Ala Val Thr Trp Asn Gly Pro Ser
180      185      190
Thr Glu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Lys Asp
195      200      205
Asn Asp Arg Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu
210      215      220
Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ser Ser Ile Met Gly Ile Tyr
225      230      235      240
Thr Thr Pro Asp Arg Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr
245      250      255
Val Ser Ser

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<210> 14

<211> 261

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of ID58F construct

<400> 14

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Glu Ser Gly Ala
1      5      10      15
Ser Leu Arg Leu Ser Cys Val Thr Ser Gly His Ile Phe Lys Leu Tyr
20      25      30
Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
35      40      45
Ala Ala Val Thr Trp Asn Gly Pro Ser Thr Glu Tyr Ala Asp Ser Val
50      55      60
Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn Asp Arg Asn Thr Leu Tyr
65      70      75      80
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85      90      95
Ala Arg Ser Ser Ile Met Gly Ile Tyr Thr Thr Pro Asp Arg Tyr Glu
100      105      110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly
115      120      125
Ser Asp Lys Asp Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
130      135      140
Gly Gly Gly Leu Val Glu Ser Gly Ala Ser Leu Arg Leu Ser Cys Val
145      150      155      160
Thr Ser Gly His Ile Phe Lys Leu Tyr Gly Met Gly Trp Phe Arg Gln
165      170      175
Ala Pro Gly Lys Asp Arg Glu Phe Val Ala Ala Val Thr Trp Asn Gly

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eo1f-seq1

Pro Ser Thr 180 Tyr Ala Asp Ser 185 Val Lys Gly Arg Phe 190 Thr Ile Ser
 195 200 205 210 215 220 225 230 235 240 245 250 255
 Lys Asp Asn Asp Arg Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys
 Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ser Ser Ile Met Gly
 Ile Tyr Thr Thr Pro Asp Arg Tyr Glu Tyr Trp Gly Gln Gly Thr Gln
 Val Thr Val Ser Ser

<210> 15
 <211> 263
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of ID59F construct

<400> 15
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Glu Ser Gly Ala
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Val Thr Ser Gly His Ile Phe Lys Leu Tyr
 20 25 30
 Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
 35 40 45
 Ala Ala Val Thr Trp Asn Gly Pro Ser Thr Glu Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn Asp Arg Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ser Ile Met Gly Ile Tyr Thr Thr Pro Asp Arg Tyr Glu
 100 105 110
 Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
 115 120 125
 Ser Asp Asp Asp Lys Gly Gly Gly Ser Glu Val Gln Leu Val
 130 135 140
 Glu Ser Gly Gly Gly Leu Val Glu Ser Gly Ala Ser Leu Arg Leu Ser
 145 150 155 160
 Cys Val Thr Ser Gly His Ile Phe Lys Leu Tyr Gly Met Gly Trp Phe
 165 170 175
 Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val Ala Ala Val Thr Trp
 180 185 190
 Asn Gly Pro Ser Thr Glu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
 195 200 205
 Ile Ser Lys Asp Asn Asp Arg Asn Thr Leu Tyr Leu Gln Met Asn Ser
 210 215 220
 Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ser Ser Ile
 225 230 235 240
 Met Gly Ile Tyr Thr Thr Pro Asp Arg Tyr Glu Tyr Trp Gly Gln Gly
 245 250 255
 Thr Gln Val Thr Val Ser Ser

<210> 16
 <211> 260
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of ID60F construct

<400> 16
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Glu Ser Gly Ala
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Val Thr Ser Gly His Ile Phe Lys Leu Tyr

eof-seq1

			20					25				30			
Gly	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Asp	Arg	Glu	Phe	Val
		35					40					45			
Ala	Ala	Val	Thr	Trp	Asn	Gly	Pro	Ser	Thr	Glu	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Lys	Asp	Asn	Asp	Arg	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90				95		
Ala	Arg	Ser	Ser	Ile	Met	Gly	Ile	Tyr	Thr	Thr	Pro	Asp	Arg	Tyr	Glu
			100					105					110		
Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Lys	Gly	Gly	Gly
	115						120					125			
Gly	Ser	Gly	Gly	Gly	Gly	Ser	Lys	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly
	130					135					140				
Gly	Gly	Leu	Val	Glu	Ser	Gly	Ala	Ser	Leu	Arg	Leu	Ser	Cys	Val	Thr
145					150					155				160	
Ser	Gly	His	Ile	Phe	Lys	Leu	Tyr	Gly	Met	Gly	Trp	Phe	Arg	Gln	Ala
				165					170					175	
Pro	Gly	Lys	Asp	Arg	Glu	Phe	Val	Ala	Val	Thr	Trp	Asn	Gly	Pro	
			180					185					190		
Ser	Thr	Glu	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Lys
	195						200					205			
Asp	Asn	Asp	Arg	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro
	210					215					220				
Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Ser	Ser	Ile	Met	Gly	Ile
225					230					235				240	
Tyr	Thr	Thr	Pro	Asp	Arg	Tyr	Glu	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val
				245					250					255	
Thr	Val	Ser	Ser												
			260												

<210> 17

<211> 261

<212> PRT

<213> Artificial sequence

<220>

<223> Polypeptide sequence of ID56F construct

<400> 17

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Glu	Ser	Gly	Ala
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Val	Thr	Ser	Gly	His	Ile	Phe	Lys	Leu	Tyr
			20					25					30		
Gly	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Asp	Arg	Glu	Phe	Val
	35						40					45			
Ala	Ala	Val	Thr	Trp	Asn	Gly	Pro	Ser	Thr	Glu	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Lys	Asp	Asn	Asp	Arg	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90				95		
Ala	Arg	Ser	Ser	Ile	Met	Gly	Ile	Tyr	Thr	Thr	Pro	Asp	Arg	Tyr	Glu
			100					105					110		
Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Arg	Gly	Gly	Gly
	115						120					125			
Gly	Ser	Arg	Gly	Gly	Gly	Gly	Ser	Arg	Glu	Val	Gln	Leu	Val	Glu	Ser
	130					135					140				
Gly	Gly	Gly	Leu	Val	Glu	Ser	Gly	Ala	Ser	Leu	Arg	Leu	Ser	Cys	Val
145					150					155				160	
Thr	Ser	Gly	His	Ile	Phe	Lys	Leu	Tyr	Gly	Met	Gly	Trp	Phe	Arg	Gln
				165					170				175		
Ala	Pro	Gly	Lys	Asp	Arg	Glu	Phe	Val	Ala	Ala	Val	Thr	Trp	Asn	Gly
			180					185					190		
Pro	Ser	Thr	Glu	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser
	195						200					205			
Lys	Asp	Asn	Asp	Arg	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys

eolf-seql

210	215	220
Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ser Ser Ile Met Gly		
225	230	235
Ile Tyr Thr Thr Pro Asp Arg Tyr Glu Tyr Trp Gly Gln Gly Thr Gln		
245	250	255
Val Thr Val Ser Ser		
260		

<210> 18
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of ID1A ICVD

<400> 18

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

<210> 19
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of ID5F ICVD

<400> 19

Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Glu Ser Gly Ala	
1	5
Ser Leu Arg Leu Ser Cys Val Thr Ser Gly His Ile Phe Lys Leu Tyr	10
20	25
Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val	30
35	40
Ala Ala Val Thr Trp Asn Gly Pro Ser Thr Glu Tyr Ala Asp Ser Val	45
50	55
Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn Asp Arg Asn Thr Leu Tyr	60
65	70
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys	75
85	90
Ala Arg Ser Ser Ile Met Gly Ile Tyr Thr Thr Pro Asp Arg Tyr Glu	95
100	105
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser	110
115	120

<210> 20
 <211> 732
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Polynucleotide sequence encoding ID3A construct

<400> 20
 gatgtgcagc tgcaggagtc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc

eo1f-seq1

tcctgtgtaa tctctggaat ggacttcagt cacaaacccg cgggctgggt ccgccaggct	120
ccaggaaaag agcgcgagtt cgtcgcttcg attacgactc gtgctagcac gcactatgca	180
gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtatatcta	240
gaaatgaaca gcctgaaacc tgaggacacg gccgtctatt cttgtaactc cgaatactac	300
tggggccagg ggaccaggt caccgtctcc tcagggtggag gcggttcagg cggagggtggc	360
tctggcggtg gcggaagtgg tggaggcggt tcagatgtgc agctgcagga gtctggggga	420
ggcttggtgc agcctggggg gtctctgaga ctctcctgtg taatctctgg aatggacttc	480
agtcacaaac ccgcgggctg gttccgccag gctccaggaa aagagcgga gttcgtcgct	540
tcgattacga ctcgtgctag cacgcactat gcagactccg tgaagggccg attcaccatc	600
tccagagaca acgccaagaa cacggtatat ctagaaatga acagcctgaa acctgaggac	660
acggccgtct attcttgtaa ctccgaatac tactggggcc aggggacca ggtcaccgtc	720
tcctcataat ga	732

<210> 21

<211> 705

<212> DNA

<213> Artificial sequence

<220>

<223> Polynucleotide sequence encoding ID25A construct

<400> 21

gatgtgcagc tgcaggagtc tgggggagggc ttggtgcagc ctgggggggtc tctgagactc	60
tcctgtgtaa tctctggaat ggacttcagt cacaaacccg cgggctgggt ccgccaggct	120
ccaggaaaag agcgcgagtt cgtcgcttcg attacgactc gtgctagcac gcactatgca	180
gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtatatcta	240
gaaatgaaca gcctgaaacc tgaggacacg gccgtctatt cttgtaactc cgaatactac	300
tggggccagg ggaccaggt caccgtctcc tcagggtggag gcggttcaaa aggcggaggt	360
ggctctgatg tgcagctgca ggagtctggg ggaggcttgg tgcagcctgg ggggtctctg	420
agactctcct gtgtaatctc tggaatggac ttcagtcaca aaccgcggg ctggttccgc	480
caggctccag gaaaagagcg cgagttcgtc gcttcgatta cgactcgtgc tagcacgcac	540
tatgcagact ccgtgaaggg ccgattcacc atctccagag acaacgcaa gaacacggta	600
tatctagaaa tgaacagcct gaaacctgag gacacggccg tctattcttg taactccgaa	660
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<210> 22

<211> 711

<212> DNA

<213> Artificial sequence

<220>

<223> Polynucleotide sequence encoding ID26A construct

eof-seq1

<400> 22
 gatgtgcagc tgcaggagtc tgggggagggc ttggtgcagc ctgggggggtc tctgagactc 60
 tcctgtgtaa tctctggaat ggacttcagt cacaaacccg cgggctgggtt ccgccaggct 120
 ccaggaaaag agcgcgagtt cgtcgcttcg attacgactc gtgctagcac gcactatgca 180
 gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtatatcta 240
 gaaatgaaca gcctgaaacc tgaggacacg gccgtctatt cttgtaactc cgaatactac 300
 tggggccagg ggaccaggt caccgtctcc tcaggtggag gcggttcaga taaagacggc 360
 ggaggtggct ctgatgtgca gctgcaggag tctgggggag gcttggtgca gcctgggggg 420
 tctctgagac tctctgtgt aatctctgga atggacttca gtcacaaacc cgcgggctgg 480
 ttccgccagg ctccaggaaa agagcgcgag ttcgtcgctt cgattacgac tcgtgctagc 540
 acgcactatg cagactccgt gaagggccga ttcaccatct ccagagacaa cgccaagaac 600
 acggtatatc tagaaatgaa cagcctgaaa cctgaggaca cggccgtcta ttcttgtaac 660
 tccgaatact actggggcca ggggacccag gtcaccgtct ctcataatg a 711

<210> 23
 <211> 717
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Polynucleotide sequence encoding ID27A construct

<400> 23
 gatgtgcagc tgcaggagtc tgggggagggc ttggtgcagc ctgggggggtc tctgagactc 60
 tcctgtgtaa tctctggaat ggacttcagt cacaaacccg cgggctgggtt ccgccaggct 120
 ccaggaaaag agcgcgagtt cgtcgcttcg attacgactc gtgctagcac gcactatgca 180
 gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtatatcta 240
 gaaatgaaca gcctgaaacc tgaggacacg gccgtctatt cttgtaactc cgaatactac 300
 tggggccagg ggaccaggt caccgtctcc tcaggtggag gcggttcaga tgacgacgat 360
 aaaggcggag gtggctctga tgtgcagctg caggagtctg ggggaggctt ggtgcagcct 420
 ggggggtctc tgagactctc ctgtgtaatc tctggaatgg acttcagtca caaaccgcg 480
 ggctggttcc gccaggctcc aggaaaagag cgcgagttcg tcgcttcgat tacgactcgt 540
 gctagcacgc actatgcaga ctccgtgaag ggccgattca ccatctccag agacaacgcc 600
 aagaacacgg tatatctaga aatgaacagc ctgaaacctg aggacacggc cgtctattct 660
 tgtaactccg aatactactg gggccagggg acccaggtca ccgtctcctc ataatga 717

<210> 24
 <211> 708
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Polynucleotide sequence encoding ID28A construct

eof-seq1

<400> 24
gatgtgcagc tgcaggagtc tgggggagggc ttggtgcagc ctgggggggtc tctgagactc 60
tcctgtgtaa tctctggaat ggacttcagt cacaacccg cgggctgggtt ccgccaggct 120
ccaggaaaag agcgcgagtt cgtcgcttcg attacgactc gtgctagcac gcactatgca 180
gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtatatcta 240
gaaatgaaca gcctgaaacc tgaggacacg gccgtctatt cttgtaactc cgaatactac 300
tggggccagg ggaccaggt caccgtctcc tcaaaagggtg gaggcgggttc aggcggaggt 360
ggctctaagg atgtgcagct gcaggagtct gggggaggct tgggtgcagcc tgggggggtct 420
ctgagactct cctgtgtaat ctctggaatg gacttcagtc acaaacccgc gggctgggttc 480
cgccaggctc caggaaaaga gcgcgagttc gtcgcttcga ttacgactcg tgctagcacg 540
cactatgcag actccgtgaa gggccgattc accatctcca gagacaacgc caagaacacg 600
gtatatctag aaatgaacag cctgaaacct gaggacacgg ccgtctattc ttgtaactcc 660
gaatactact gggggccaggg gaccaggtc accgtctcct cataatga 708

<210> 25
<211> 810
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding ID55F construct

<400> 25
gaggtgcagc tgggtggagtc tgggggagga ttggttgaga gtggggcctc tctgagactc 60
tcctgtgtaa cctctggaca tatcttcaag ttgtatggca tgggctgggtt ccggcaggct 120
cccgggaagg accgtgagtt cgtagcggct gttacatgga acggtccgag cacagagtac 180
gcagactccg tgaagggccg attcaccatc tccaaggaca acgacaggaa cacgctgtat 240
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accgtctcct caggtggagg cggttcaggc ggaggtggct ctggcggtgg cggaagtgg 420
ggcgggtggat cagaggtgca gctgggtggag tctgggggag gattggttga gagtggggcc 480
tctctgagac tctcctgtgt aacctctgga catatcttca agttgtatgg catgggctgg 540
ttccggcagg ctcccgggaa ggaccgtgag ttcgtagcgg ctgttacatg gaacggtccg 600
agcacagagt acgcagactc cgtgaagggc cgattcacca tctccaagga caacgacagg 660
aacacgctgt atctgcaaat gaacagcctg aaacctgagg acacggccgt ttattactgt 720
gcacgaagtt ccataatggg aatatatact acccccgaca gatacgaata ctggggccag 780
gggacccagg tcaccgtctc ctcataatga 810

<210> 26
<211> 783
<212> DNA
<213> Artificial Sequence

eo1f-seq1

<220>

<223> Polynucleotide sequence encoding ID57F construct

<400> 26

gaggtgcagc	tggtggagtc	tgggggagga	ttggttgaga	gtggggcctc	tctgagactc	60
tcctgtgtaa	cctctggaca	tatcttcaag	ttgtatggca	tgggctgggt	ccggcaggct	120
cccgggaagg	accgtgagtt	cgtagcggct	gttacatgga	acggtccgag	cacagagtac	180
gcagactccg	tgaagggccg	attcaccatc	tccaaggaca	acgacaggaa	cacgctgtat	240
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ataatgggaa	tatatactac	ccccgacaga	tacgaatact	ggggccaggg	gacccaagtc	360
accgtctcct	caggtggagg	cggttcaaaa	ggcggagggtg	gctctgaggt	gcagctggtg	420
gagtctgggg	gaggattggt	tgagagtggg	gcctctctga	gactctcctg	tgtaacctct	480
ggacatatct	tcaagttgta	tggcatgggc	tggttccggc	aggctcccgg	gaaggaccgt	540
gagttcgtag	cggctgttac	atggaacggt	ccgagcacag	agtacgcaga	ctccgtgaag	600
ggccgattca	ccatctccaa	ggacaacgac	aggaacacgc	tgtatctgca	aatgaacagc	660
ctgaaacctg	aggacacggc	cgtttattac	tgtgcacgaa	gttcataat	gggaatatat	720
actacccccg	acagatacga	atactggggc	caggggaccc	aggtcaccgt	ctcctcataa	780
tga						783

<210> 27

<211> 789

<212> DNA

<213> Artificial Sequence

<220>

<223> Polynucleotide sequence encoding ID58F construct

<400> 27

gaggtgcagc	tggtggagtc	tgggggagga	ttggttgaga	gtggggcctc	tctgagactc	60
tcctgtgtaa	cctctggaca	tatcttcaag	ttgtatggca	tgggctgggt	ccggcaggct	120
cccgggaagg	accgtgagtt	cgtagcggct	gttacatgga	acggtccgag	cacagagtac	180
gcagactccg	tgaagggccg	attcaccatc	tccaaggaca	acgacaggaa	cacgctgtat	240
ctgcaaatga	acagcctgaa	acctgaggac	acggccgttt	attactgtgc	acgaagttcc	300
ataatgggaa	tatatactac	ccccgacaga	tacgaatact	ggggccaggg	gacccaagtc	360
accgtctcct	caggtggagg	cggttcagat	aaagatggcg	gaggtggctc	tgaggtgcag	420
ctggtggagt	ctgggggagg	attggttgag	agtggggcct	ctctgagact	ctcctgtgta	480
acctctggac	atatcttcaa	gttgtatggc	atgggctggt	tccggcaggc	tcccgggaag	540
gaccgtgagt	tcgtagcggc	tgttacatgg	aacggtccga	gcacagagta	cgcagactcc	600
gtgaagggcc	gattcaccat	ctccaaggac	aacgacagga	acacgctgta	tctgcaaatg	660
aacagcctga	aacctgagga	cacggccgtt	tattactgtg	cacgaagttc	cataatggga	720
atatatacta	ccccgacag	atacgaatac	tggggccagg	ggaccaggt	caccgtctcc	780

eo1f-seq1

tcataatga

789

<210> 28
<211> 795
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding ID59F construct

<400> 28
gaggtgcagc tggtggagtc tgggggagga ttggttgaga gtggggcctc tctgagactc 60
tcctgtgtaa cctctggaca tatcttcaag ttgtatggca tgggctgggt cccgcaggct 120
cccgggaagg accgtgagtt cgtagcggct gttacatgga acggtccgag cacagagtac 180
gcagactccg tgaagggccg attcaccatc tccaaggaca acgacaggaa cacgctgtat 240
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ataatgggaa tatatactac ccccgacaga tacgaatact ggggccaggg gacccaagtc 360
accgtctcct caggtggagg cggttcagac gatgacgata aaggcggagg tggctctgag 420
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tgtgtaacct ctggacatat cttcaagttg tatggcatgg gctggttccg gcaggctccc 540
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gactccgtga agggccgatt caccatctcc aaggacaacg acaggaacac gctgtatctg 660
caaatgaaca gcctgaaacc tgaggacacg gccgtttatt actgtgcacg aagttccata 720
atgggaatat atactacccc cgacagatac gaatactggg gccaggggac ccaggtcacc 780
gtctcctcat aatga 795

<210> 29
<211> 786
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding ID60F construct

<400> 29
gaggtgcagc tggtggagtc tgggggagga ttggttgaga gtggggcctc tctgagactc 60
tcctgtgtaa cctctggaca tatcttcaag ttgtatggca tgggctgggt cccgcaggct 120
cccgggaagg accgtgagtt cgtagcggct gttacatgga acggtccgag cacagagtac 180
gcagactccg tgaagggccg attcaccatc tccaaggaca acgacaggaa cacgctgtat 240
ctgcaaatga acagcctgaa acctgaggac acggccgttt attactgtgc acgaagttcc 300
ataatgggaa tatatactac ccccgacaga tacgaatact ggggccaggg gacccaagtc 360
accgtctcct caaaaggtgg aggcgggttca ggcggagggt gctctaaaga ggtgcagctg 420
gtggagtctg ggggaggatt ggttgagagt ggggcctctc tgagactctc ctgtgtaacc 480
tctggacata tcttcaagtt gtatggcatg ggctggttcc ggcaggctcc cgggaaggac 540

eol-f-seq1

cgtgagttcg tagcggctgt tacatggaac ggtccgagca cagagtacgc agactccgtg	600
aagggccgat tcaccatctc caaggacaac gacaggaaca cgctgtatct gcaaataaac	660
agcctgaaac ctgaggacac ggccgtttat tactgtgcac gaagttccat aatgggaata	720
tatactaccc ccgacagata cgaatactgg ggccagggga cccaggtcac cgtctcctca	780
taatga	786

<210> 30
<211> 795
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding ID56F construct

<400> 30 gaggtgcagc tggaggagtc tgggggagga ttggttgaga gtggggcctc tctgagactc	60
tcctgtgtaa cctctggaca tatcttcaag ttgtatggca tgggctgggt cccggcaggct	120
cccgggaagg accgtgagtt cgtagcggct gttacatgga acggtccgag cacagagtac	180
gcagactccg tgaagggccg attcaccatc tccaaggaca acgacaggaa cacgctgtat	240
ctgcaaatac acagcctgaa acctgaggac acggccgttt attactgtgc acgaagttcc	300
ataatgggaa tatatactac ccccgacaga tacgaatact ggggccaggg gacccaagtc	360
accgtctcct caggtggagg cggttcagac gatgacgata aaggcggagg tggctctgag	420
gtgcagctgg tggagtctgg gggaggattg gttgagagtg gggcctctct gagactctcc	480
tgtgtaacct ctggacatat cttcaagttg tatggcatgg gctgggtccg gcaggctccc	540
gggaaggacc gtgagttcgt agcggctgtt acatggaacg gtccgagcac agagtacgca	600
gactccgtga agggccgatt caccatctcc aaggacaacg acaggaacac gctgtatctg	660
caaatagaac gcctgaaacc tgaggacacg gccgtttatt actgtgcacg aagttccata	720
atgggaatat atactacccc cgacagatac gaatactggg gccaggggac ccaggtcacc	780
gtctcctcat aatga	795

<210> 31
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding linker used in constructs ID3A and ID55F

<400> 31 ggtggtggtg gttctggtgg tgggtggttct ggtggtggtg gttctggtgg tgggtggttct	60
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<210> 32
<211> 33
<212> DNA
<213> Artificial Sequence

eolf-seq1

<220>
<223> Polynucleotide sequence encoding linker used in constructs ID25A and ID57F

<400> 32
ggtggtggtg gttctaaagg tggtggtggt tct 33

<210> 33
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding linker used in constructs ID26A and ID58F

<400> 33
ggtggtggtg gttctgataa agatggtggt ggtggttct 39

<210> 34
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding linker used in constructs ID27A and ID59F

<400> 34
ggtggtggtg gttctgatga tgatgataaa ggtggtggtg gttct 45

<210> 35
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding linker used in constructs ID28A and ID60F

<400> 35
aaaggtggtg gtggttctgg tggtggtggt tctaaa 36

<210> 36
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Polynucleotide sequence encoding linker used in construct ID56F

<400> 36
agaggtggtg gtggttctag aggtggtggt ggttctaga 39

<210> 37
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Proposed chymotrypsin-labile linker

<400> 37

gly Gly Gly Gly ser Tyr Gly Gly Gly eolf-seql
 1 5 10 Gly Ser

<210> 38

<211> 235

<212> PRT

<213> Artificial sequence

<220>

<223> Polypeptide sequence of ID4A construct

<400> 38

Asp	Val	Gln	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	1	5	10	15
Ser	Leu	Arg	Leu	Ser	Cys	Val	Ile	Ser	Gly	Met	Asp	Phe	Ser	His	Lys	20	25	30	35
Pro	Ala	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val	40	45	50	55
Ala	Ser	Ile	Thr	Thr	Arg	Ala	Ser	Thr	His	Tyr	Ala	Asp	Ser	Val	Lys	60	65	70	75
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	80	85	90	95
Glu	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Ser	Cys	Asn	100	105	110	115
Ser	Glu	Tyr	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Arg	120	125	130	135
Gly	Gly	Gly	Gly	Ser	Arg	Gly	Gly	Gly	Gly	Ser	Arg	Asp	Val	Gln	Leu	140	145	150	155
Gln	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	160	165	170	175
Ser	Cys	Val	Ile	Ser	Gly	Met	Asp	Phe	Ser	His	Lys	Pro	Ala	Gly	Trp	180	185	190	195
Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala	Ser	Ile	Thr	200	205	210	215
Thr	Arg	Ala	Ser	Thr	His	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	220	225	230	235
Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	Glu	Met	Asn	Ser				
Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Ser	Cys	Asn	Ser	Glu	Tyr	Tyr				
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser									