

@E0101605. Sequence listing_ST25.txt
SEQUENCE LISTING

<110> EUROCLONE S.p.A.
Università degli Studi di Milano

<120> Sistema di espressione migliorato del recettore per gli Advanced Glycation End Products (AGE) e gli Advanced Lipid Glycation End Products (ALE) e sue applicazioni

<130> @E0101605

<160> 24

<170> PatentIn version 3.5

<210> 1

<211> 762

<212> DNA

<213> Artificial sequence

<220>

<223> Sequenza nucleotidica di His-VC1-StrepEc

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cccaagaaac caccacagcg gctggaatgg aaactgaaca caggccggac agaagcttgg      180
aaggctctgt ctccccaggg aggaggcccc tgggacagtg tggctcgtgt ctttcccaac      240
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gggaagccag aaattgtaga ttctgcctct gaactcacgg ctggtgttcc caataagggtg      420
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gagacagggc tttcacact gcagtcggag ctaatggtga cccagcccg gggaggagat      600
ccccgtcca ctttctctg tagcttcagc ccaggccttc cccgacaccg ggccttgccg      660
acagcccca tccagccccg tgtctgggag cctgtgcctc tggaggaggt ccaattggtg      720
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<210> 2

<211> 253

<212> PRT

<213> Artificial sequence

<220>

<223> Sequenza amminoacidica di His-VC1-StrepEc

<400> 2

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Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
1          5          10          15
Arg Gly Ser His Met Ala Gln Asn Ile Thr Ala Arg Ile Gly Glu Pro
          20          25          30
```

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Leu Val Leu Lys Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Arg Leu
35 40 45

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

Pro Gln Gly Gly Gly Pro Trp Asp Ser Val Ala Arg Val Leu Pro Asn
65 70 75 80

Gly Ser Leu Phe Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Ile Phe
85 90 95

Arg Cys Gln Ala Met Asn Arg Asn Gly Lys Glu Thr Lys Ser Asn Tyr
100 105 110

Arg Val Arg Val Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp Ser
115 120 125

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

Ser Glu Gly Ser Tyr Pro Ala Gly Thr Leu Ser Trp His Leu Asp Gly
145 150 155 160

Lys Pro Leu Val Pro Asn Glu Lys Gly Val Ser Val Lys Glu Gln Thr
165 170 175

Arg Arg His Pro Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu Leu Met
180 185 190

Val Thr Pro Ala Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser Cys Ser
195 200 205

Phe Ser Pro Gly Leu Pro Arg His Arg Ala Leu Arg Thr Ala Pro Ile
210 215 220

Gln Pro Arg Val Trp Glu Pro Val Pro Leu Glu Glu Val Gln Leu Val
225 230 235 240

Val Glu Gly Ser Ala Trp Arg His Pro Gln Phe Gly Gly
245 250

<210> 3
<211> 768
<212> DNA
<213> artificial sequence

<220>
<223> Sequenza nucleotidica di VC1-StrepPp

<400> 3
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60

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ggggcccccagaagaccacc ccagcggctg gaatggaaac tgaacacagg ccggacagaa	180
gcttggaagg tcctgtctcc ccagggagga gggccctggg acagtgtggc tcgtgtcctt	240
cccaacggct ccctcttcct tccggctgtc gggatccagg atgaggggat tttccggtgc	300
caggcaatga acaggaatgg aaaggagacc aagtccaact accgagtccg tgtctaccag	360
attcctggga agccagaaat tgtagattct gcctctgaac tcacggctgg tgttcccaat	420
aagggtgggga catgtgtgtc agagggaagc taccctgcag ggactcttag ctggcacttg	480
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caccctgaga cagggctctt cacactgcag tcggagctaa tggtagacccc agcccgggga	600
ggagatcccc gtcccacctt ctctgtagc ttcagcccag gccttccccg acaccggggc	660
ttgcgcacag ccccatcca gcccgtgtc tgggagcctg tgcctctgga ggaggtccaa	720
ttggtggtgg agggtagcgc ttggcgtcac ccgcagttcg gtggttag	768

<210> 4
 <211> 255
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Sequenza amminoacidica del precursore di VC1-StrepPp
 <400> 4

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

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135 140

130
Cys Val Ser Glu Gly Ser Tyr Pro Ala Gly Thr Leu Ser Trp His Leu
145 150 155 160
Asp Gly Lys Pro Leu Val Pro Asn Glu Lys Gly Val Ser Val Lys Glu
165 170 175
Gln Thr Arg Arg His Pro Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu
180 185 190
Leu Met Val Thr Pro Ala Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser
195 200 205
Cys Ser Phe Ser Pro Gly Leu Pro Arg His Arg Ala Leu Arg Thr Ala
210 215 220
(...)
Ile Gln Pro Arg Val Trp Glu Pro Val Pro Leu Glu Glu Val Gln
225 230 235 240
Leu Val Val Glu Gly Ser Ala Trp Arg His Pro Gln Phe Gly Gly
245 250 255

<210> 5
<211> 705
<212> DNA
<213> Artificial Sequence

<220>
<223> Sequenza nucleotidica di VC1Pp

<400> 5
atgttctctc caattttgtc cttggaaatt attttagctt tggtacttt gcaatctgtc 60
ttcgctcgag ctcaaaacat cacagcccgg attggcgagc cactggtgct gaagtgtgag 120
ggggcccca agaaaccacc ccagcggctg gaatggaaac tgaacacagg ccggacagaa 180
gcttggaagg tcctgtctcc ccagggagga ggcctctggg acagtgtggc tcgtgtcctt 240
cccaacggct ccctcttcct tccggctgtc gggatccagg atgaggggat tttccggtgc 300
tcgcaatga acaggaatgg aaaggagacc aagtccaact accgagtccg tgtctaccag 360
tcctctggg agccagaaat tgtagattct gcctctgaac tcacggctgg tgttccaat 420
aaggtgggga catgtgtgtc agaggggaagc tacctgcag ggactcttag ctggcacttg 480
gatgggaagc ccctggtgcc taatgagaag ggagtatctg tgaaggaaca gaccaggaga 540
caccctgaga cagggctctt cacactgcag tcggagctaa tggtagcccc agccccggga 600
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ttgcgcacag ccccatcca gcccgtgtc tgggagcctg tgtag 705

<210> 6
<211> 234
<212> PRT

@E0101605. Sequence listing_ST25.txt
<213> Artificial Sequence

<220>

<223> Sequenza amminoacidica del precursore di VC1Pp

<400> 6

Met Phe Ser Pro Ile Leu Ser Leu Glu Ile Ile Leu Ala Leu Ala Thr
1 5 10 15

Leu Gln Ser Val Phe Ala Arg Ala Gln Asn Ile Thr Ala Arg Ile Gly
20 25 30

Glu Pro Leu Val Leu Lys Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln
35 40 45

Arg Leu Glu Trp Lys Leu Asn Thr Gly Arg Thr Glu Ala Trp Lys Val
50 55 60

Leu Ser Pro Gln Gly Gly Gly Pro Trp Asp Ser Val Ala Arg Val Leu
65 70 75 80

Pro Asn Gly Ser Leu Phe Leu Pro Ala Val Gly Ile Gln Asp Glu Gly
85 90 95

Ile Phe Arg Cys Gln Ala Met Asn Arg Asn Gly Lys Glu Thr Lys Ser
100 105 110

Asn Tyr Arg Val Arg Val Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val
115 120 125

Asp Ser Ala Ser Glu Leu Thr Ala Gly Val Pro Asn Lys Val Gly Thr
130 135 140

Cys Val Ser Glu Gly Ser Tyr Pro Ala Gly Thr Leu Ser Trp His Leu
145 150 155 160

Asp Gly Lys Pro Leu Val Pro Asn Glu Lys Gly Val Ser Val Lys Glu
165 170 175

Gln Thr Arg Arg His Pro Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu
180 185 190

Leu Met Val Thr Pro Ala Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser
195 200 205

Cys Ser Phe Ser Pro Gly Leu Pro Arg His Arg Ala Leu Arg Thr Ala
210 215 220

Pro Ile Gln Pro Arg Val Trp Glu Pro Val
225 230

<210> 7

@E0101605. Sequence listing_ST25.txt

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<211> 41
<212> DNA
<213> artificial

<220>
<223> VNdeIFOR per la costruzione del plasmide ricombinante pET-15b
His-VC1-Strep per l'espressione in E. coli

<400> 7
agcatattcg actgacatat ggctcaaaac atcacagccc g 41

<210> 8
<211> 72
<212> DNA
<213> Artificial

<220>
<223> StrepREV per la costruzione del plasmide ricombinante pET-15b
His-VC1-Strep per l'espressione in E. coli

<400> 8
atcgtcgggc tctactcgagc taaccaccga actgcgggtg acgccaagcg ctaccctcca 60
ccaccaattg ga 72

<210> 9
<211> 40
<212> DNA
<213> artificial

<220>
<223> VCXhoIFOR per la costruzione del plasmide ricombinante per
l'espressione di una variante immobilizzabile di VC1 in P.
pastoris

<400> 9
agcatattcg actgactcga gctcaaaaca tcacagcccg 40

<210> 10
<211> 72
<212> DNA
<213> artificial

<220>
<223> StrepREV per la costruzione del plasmide ricombinante per
l'espressione di una variante immobilizzabile di VC1 in P.
pastoris

<400> 10
atcgtcgggc tctactcgagc taaccaccga actgcgggtg acgccaagcg ctaccctcca 60
ccaccaattg ga 72

<210> 11
<211> 40
<212> DNA
<213> artificial

<220>
<223> VCXhoIFOR per la costruzione del plasmide ricombinante PHIL-S1
VC1 per l'espressione di VC1 in P. pastoris

<400> 11
agcatattcg actgactcga gctcaaaaca tcacagcccg 40

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@E0101605. Sequence listing_ST25.txt

<210> 12
 <211> 40
 <212> DNA
 <213> artificial

<220>
 <223> VC233XhoREV per la costruzione del plasmide ricombinante PHIL-S1
 VC1 per l'espressione di VC1 in P. pastoris

<400> 12
 atcgtcgggc tcactcgagc tacacaggct cccagacacg

40

<210> 13
 <211> 235
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Sequenza amminoacidica His-VC1-StrepEc di VC1-StrepEc dopo
 digestione con trombina

<400> 13

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

Val Leu Lys Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Arg Leu Glu
 20 25 30

Trp Lys Leu Asn Thr Gly Arg Thr Glu Ala Trp Lys Val Leu Ser Pro
 35 40 45

Gln Gly Gly Gly Pro Trp Asp Ser Val Ala Arg Val Leu Pro Asn Gly
 50 55 60

Ser Leu Phe Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Ile Phe Arg
 65 70 75 80

Cys Gln Met Asn Arg Asn Gly Lys Glu Thr Lys Ser Asn Tyr Arg Val
 85 90 95

Arg Val Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp Ser Ala Ser
 100 105 110

Glu Leu Thr Ala Gly Val Pro Asn Lys Val Gly Thr Cys Val Ser Glu
 115 120 125

Gly Ser Tyr Pro Ala Gly Thr Leu Ser Trp His Leu Asp Gly Lys Pro
 130 135 140

Leu Val Pro Asn Glu Lys Gly Val Ser Val Lys Glu Gln Thr Arg Arg
 145 150 155 160

His Pro Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu Leu Met Val Thr
 165 170 175

@E0101605. Sequence listing_ST25.txt

Pro Ala Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser Cys Ser Phe Ser
180 185 190

Pro Gly Leu Pro Arg His Arg Ala Leu Arg Thr Ala Pro Ile Gln Pro
195 200 205

Arg Val Trp Glu Pro Val Pro Leu Glu Glu Val Gln Leu Val Val Glu
210 215 220

Gly Ser Ala Trp Arg His Pro Gln Phe Gly Gly
225 230 235

<210> 14

<211> 233

<212> PRT

<213> Artificial Sequence

<220>

<223> Sequenza amminoacidica VC1-StrepPp matura-dopo rimozione della
sequenza segnale

<400> 14

Arg Ala Gln Asn Ile Thr Ala Arg Ile Gly Glu Pro Leu Val Leu Lys
1 5 10 15

Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Arg Leu Glu Trp Lys Leu
20 25 30

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

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

Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Ile Phe Arg Cys Gln Ala
65 70 75 80

Met Asn Arg Asn Gly Lys Glu Thr Lys Ser Asn Tyr Arg Val Arg Val
85 90 95

Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp Ser Ala Ser Glu Leu
100 105 110

Thr Ala Gly Val Pro Asn Lys Val Gly Thr Cys Val Ser Glu Gly Ser
115 120 125

Tyr Pro Ala Gly Thr Leu Ser Trp His Leu Asp Gly Lys Pro Leu Val
130 135 140

Pro Asn Glu Lys Gly Val Ser Val Lys Glu Gln Thr Arg Arg His Pro
145 150 155 160

@E0101605. Sequence listing_ST25.txt

Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu Leu Met Val Thr Pro Ala
165 170 175

Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser Cys Ser Phe Ser Pro Gly
180 185 190

Leu Pro Arg His Arg Ala Leu Arg Thr Ala Pro Ile Gln Pro Arg Val
195 200 205

Trp Glu Pro Val Pro Leu Glu Glu Val Gln Leu Val Val Glu Gly Ser
210 215 220

Ala Trp Arg His Pro Gln Phe Gly Gly
225 230

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

<220>
<223> Sequenza amminoacidica VC1Pp matura-dopo rimozione della sequenza
segnale

<400> 15

Arg Ala Gln Asn Ile Thr Ala Arg Ile Gly Glu Pro Leu Val Leu Lys
1 5 10 15

Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Arg Leu Glu Trp Lys Leu
20 25 30

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

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

Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Ile Phe Arg Cys Gln Ala
65 70 75 80

Met Asn Arg Asn Gly Lys Glu Thr Lys Ser Asn Tyr Arg Val Arg Val
85 90 95

Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp Ser Ala Ser Glu Leu
100 105 110

Thr Ala Gly Val Pro Asn Lys Val Gly Thr Cys Val Ser Glu Gly Ser
115 120 125

Tyr Pro Ala Gly Thr Leu Ser Trp His Leu Asp Gly Lys Pro Leu Val
130 135 140

@E0101605. Sequence listing_ST25.txt

Pro Asn Glu Lys Gly Val Ser Val Lys Glu Gln Thr Arg Arg His Pro
145 150 155 160

Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu Leu Met Val Thr Pro Ala
165 170 175

Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser Cys Ser Phe Ser Pro Gly
180 185 190

Leu Pro Arg His Arg Ala Leu Arg Thr Ala Pro Ile Gln Pro Arg Val
195 200 205

Trp Glu Pro Val
210

<210> 16
<211> 735
<212> DNA
<213> Artificial Sequence

<220>
<223> Sequenza nucleotidica di VC1-HisPp

<400> 16
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ggggccccc aaaaaccacc ccagcggctg gaatgggaaac tgaacacagg ccggacagaa 180
gcttggaagg tcctgtctcc ccaggaggga ggcccctggg acagtgtggc tcgtgtcctt 240
cccaacggct ccctcttctt tccggctgtc gggatccagg atgaggggat tttccggtgc 300
caggcaatga acaggaatgg aaaggagacc aagtccaact accgagtccg tgtctaccag 360
attcctggga agccagaaat ttagatttct gcctctgaac tcacggctgg tgttcccaat 420
aaggtgggga catgtgtgtc agagggaagc taccctgcag ggactcttag ctggcacttg 480
gatgggaagc ccctggtgcc taatgagaag ggagtatctg tgaaggaaca gaccaggaga 540
caccctgaga cagggtctct cactctgcag tcggagctaa tggtagcccc agcccgggga 600
ggagatcccc gtcccacctt ctctgtagc ttcagcccag gccttccccg acaccgggccc 660
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catcactagc tcgag 735

<210> 17
<211> 242
<212> PRT
<213> Artificial Sequence

<220>
<223> Sequenza amminoacidica del precursore di VC1-HisPp

<400> 17

Met Phe Ser Pro Ile Leu Ser Leu Glu Ile Ile Leu Ala Leu Ala Thr
1 5 10 15

@E0101605. Sequence listing_ST25.txt

Leu Gln Ser Val Phe Ala Arg Ala Gln Asn Ile Thr Ala Arg Ile Gly
20 25 30

Glu Pro Leu Val Leu Lys Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln
35 40 45

Arg Leu Glu Trp Lys Leu Asn Thr Gly Arg Thr Glu Ala Trp Lys Val
50 55 60

Leu Ser Pro Gln Gly Gly Gly Pro Trp Asp Ser Val Ala Arg Val Leu
65 70 75 80

Pro Asn Gly Ser Leu Phe Leu Pro Ala Val Gly Ile Gln Asp Glu Gly
85 90 95

Ile Phe Arg Cys Gln Ala Met Asn Arg Asn Gly Lys Glu Thr Lys Ser
100 105 110

Asn Tyr Arg Val Arg Val Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val
115 120 125

Asp Ser Ala Ser Glu Leu Thr Ala Gly Val Pro Asn Lys Val Gly Thr
130 135 140

Cys Val Ser Glu Gly Ser Tyr Pro Ala Gly Thr Leu Ser Trp His Leu
145 150 155 160

Asp Gly Lys Pro Leu Val Pro Asn Glu Lys Gly Val Ser Val Lys Glu
165 170 175

Gln Thr Arg Arg His Pro Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu
180 185 190

Leu Met Val Thr Pro Ala Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser
195 200 205

Cys Ser Phe Ser Pro Gly Leu Pro Arg His Arg Ala Leu Arg Thr Ala
210 215 220

Pro Ile Gln Pro Arg Val Trp Glu Pro Val Gly Ser His His His His
225 230 235 240

His His

<210> 18
<211> 220
<212> PRT
<213> Artificial sequence
<220>

<223> Sequenza amminoacidica di VC1-HisPp matura-dopo rimozione della sequenza segnale

<400> 18

Arg Ala Gln Asn Ile Thr Ala Arg Ile Gly Glu Pro Leu Val Leu Lys
1 5 10 15

Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Arg Leu Glu Trp Lys Leu
20 25 30

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

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

Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Ile Phe Arg Cys Gln Ala
65 70 75 80

Met Asn Arg Asn Gly Lys Glu Thr Lys Ser Asn Tyr Arg Val Arg Val
85 90 95

Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp Ser Ala Ser Glu Leu
100 105 110

Thr Ala Gly Val Pro Asn Lys Val Gly Thr Cys Val Ser Glu Gly Ser
115 120 125

Tyr Pro Ala Gly Thr Leu Ser Trp His Leu Asp Gly Lys Pro Leu Val
130 135 140

Pro Asn Glu Lys Gly Val Ser Val Lys Glu Gln Thr Arg Arg His Pro
145 150 155 160

Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu Leu Met Val Thr Pro Ala
165 170 175

Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser Cys Ser Phe Ser Pro Gly
180 185 190

Leu Pro Arg His Arg Ala Leu Arg Thr Ala Pro Ile Gln Pro Arg Val
195 200 205

Trp Glu Pro Val Gly Ser His His His His His His
210 215 220

<210> 19

<211> 795

<212> DNA

<213> Artificial Sequence

<220>

<223> Sequenza nucleotidica di VC1-His-StrepPp

@E0101605. Sequence listing_ST25.txt

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<400> 19
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ggggcccca agaaaccacc ccagcggctg gaatggaaac tgaacacagg ccggacagaa      180
gcttggaagg tcctgtctcc ccagggagga gggccctggg acagtgtggc tcgtgtcctt      240
cccaacggct ccctcttcct tccggctgtc gggatccagg atgaggggat tttccggtgc      300
caggcaatga acaggaatgg aaaggagacc aagtccaact accgagtccg tgtctaccag      360
attcctggga agccagaaat tgtagattct gcctctgaac tcacggctgg tgttcccaat      420
aagggtggga catgtgtgtc agagggaagc taccctgcag ggactcttag ctggcacttg      480
gatgggaagc ccctggtgcc taatgagaag ggagtatctg tgaaggaaca gaccaggaga      540
caccctgaga cagggctctt cactctgcag tcggagctaa tggtgacccc agcccgggga      600
ggagatcccc gtcccacctt ctctgtagc ttcagcccag gccttccccg acaccgggccc      660
ttgcgcacag ccccatcca gcccgtgtc tgggagcctg tgagcgcca tcaccatcac      720
catcacggtg gtggtagcgg tgggtgtagc ggtggtagcg cttggcgta cccgcagttc      780
ggtggttagc tcgag      795

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<210> 20
<211> 262
<212> PRT
<213> Artificial Sequence

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<220>
<223> Sequenza amminoacidica del precursore di VC1-His-StrepPp

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<400> 20

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

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@E0101605. Sequence listing_ST25.txt

Asn Tyr Arg Val Arg Val Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val
115 120 125

Asp Ser Ala Ser Glu Leu Thr Ala Gly Val Pro Asn Lys Val Gly Thr
130 135 140

Cys Val Ser Glu Gly Ser Tyr Pro Ala Gly Thr Leu Ser Trp His Leu
145 150 155 160

Asp Gly Lys Pro Leu Val Pro Asn Glu Lys Gly Val Ser Val Lys Glu
165 170 175

Gln Thr Arg Arg His Pro Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu
180 185 190

Leu Met Val Thr Pro Ala Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser
195 200 205

Cys Ser Phe Ser Pro Gly Leu Pro Arg His Arg Ala Leu Arg Thr Ala
210 215 220

Pro Ile Gln Pro Arg Val Trp Glu Pro Val Ser Ala His His His His
225 230 235 240

His His Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Ser Ala Trp Arg
245 250 255

His Pro Gln Phe Gly Gly
260

<210> 21

<211> 240

<212> PRT

<213> Artificial Sequence

<220>

<223> Sequenza amminoacidica di VC1-His-StrepPp matura-dopo rimozione della sequenza segnale

<400> 21

Arg Ala Gln Asn Ile Thr Ala Arg Ile Gly Glu Pro Leu Val Leu Lys
1 5 10 15

Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Arg Leu Glu Trp Lys Leu
20 25 30

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

@E0101605. Sequence listing_ST25.txt

Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Ile Phe Arg Cys Gln Ala
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Met Asn Arg Asn Gly Lys Glu Thr Lys Ser Asn Tyr Arg Val Arg Val
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Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp Ser Ala Ser Glu Leu
100 105 110

Thr Ala Gly Val Pro Asn Lys Val Gly Thr Cys Val Ser Glu Gly Ser
115 120 125

Tyr Pro Ala Gly Thr Leu Ser Trp His Leu Asp Gly Lys Pro Leu Val
130 135 140

Pro Asn Glu Lys Gly Val Ser Val Lys Glu Gln Thr Arg Arg His Pro
145 150 155 160

Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu Leu Met Val Thr Pro Ala
165 170 175

Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser Cys Ser Phe Ser Pro Gly
180 185 190

Leu Pro Arg His Arg Ala Leu Arg Thr Ala Pro Ile Gln Pro Arg Val
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Trp Glu Pro Val Ser Ala His His His His His His Gly Gly Gly Ser
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Gly Gly Gly Ser Gly Gly Ser Ala Trp Arg His Pro Gln Phe Gly Gly
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l'espressione della variante immobilizzabile VC1-HisPp in P.
pastoris

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cacg 64

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per l'espressione della variante immobilizzabile VC1-His-StrepPp

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      in P. pastoris @E0101605. Sequence listing_ST25.txt
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cacg                                                                124

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Trp Arg His Pro Gln Phe Gly Gly
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