

2017.004 WO 2.txt

SEQUENCE LISTING

<110> Wensvoort Gert
RESILIUN B.V.

<120> C PEPTIDES INTERACTION WITH ELASTIN RECEPTOR, A BLUEPRINT FOR UNDERSTANDING
VASCULAR DISEASE

<130> RES2017.004 WO 2

<150> EP17154889

<151> 2017-02-06

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Pro Ser Ala Gln Asp Glu Ala Ser Pro Leu

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Ser Pro Ser Ala Gln Asp Glu Ala Ser Pro

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Pro Ser Ala Gln

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Val Ala Pro Gly Val Gly

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<223> scrambled peptide

<400> 142

Gly Val Gly Val Ala Pro

1 5

<210> 143

<211> 10

<212> PRT

<213> Homo sapiens

<400> 143

Val Pro Gly Val Gly Ile Ser Pro Glu Ala

1 5 10

<210> 144

<211> 10

<212> PRT

<213> Homo sapiens

<400> 144

Gly Val Ala Pro Gly Ile Gly Pro Gly Gly

1 5 10

<210> 145

<211> 14

<212> PRT

<213> Homo sapiens

<400> 145

Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro

1 5 10

<210> 146

<211> 12

<212> PRT

<213> Homo sapiens

<400> 146

Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro
1 5 10

<210> 147

<211> 9

<212> PRT

<213> Homo sapiens

<400> 147

Leu Gly Gly Gly Pro Gly Ala Gly Ser
1 5

<210> 148

<211> 55

<212> PRT

<213> Homo sapiens

<400> 148

Ala Gly Ala Gly Gly Tyr Pro Gly Ala Ser Tyr Pro Gly Ala Tyr Pro
1 5 10 15
Gly Gln Ala Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro Gly Ala
20 25 30
Tyr Pro Gly Ala Pro Gly Ala Tyr Pro Gly Ala Pro Ala Pro Gly Val
35 40 45
Tyr Pro Gly Pro Pro Ser Gly
50 55

<210> 149

<211> 6

<212> PRT

<213> Homo sapiens

<400> 149

Glu Gly Phe Glu Pro Gly
1 5

<210> 150

<211> 31

<212> PRT

<213> Homo sapiens

<400> 150

Glu	Ala	Glu	Asp	Leu	Gln	Val	Gly	Gln	Val	Glu	Met	Gly	Gly	Gly	Pro
1				5				10						15	
Gly	Ala	Gly	Ser	Leu	Gln	Pro	Leu	Ala	Leu	Glu	Gly	Ser	Leu	Gln	
			20					25					30		

<210> 151
 <211> 31
 <212> PRT
 <213> Homo sapiens

Glu	Ala	Glu	Asp	Leu	Gln	Val	Gly	Gln	Val	Glu	Leu	Gly	Gly	Gly	Pro
1				5				10						15	
Gly	Ala	Gly	Ser	Leu	Gln	Pro	Leu	Ala	Leu	Glu	Arg	Ser	Leu	Gln	
			20					25					30		

<210> 152
 <211> 31
 <212> PRT
 <213> Hylobatidae

Glu	Ala	Glu	Asp	Pro	Gln	Val	Gly	Gln	Val	Glu	Leu	Gly	Gly	Gly	Pro
1				5				10						15	
Gly	Ala	Gly	Ser	Leu	Gln	Pro	Leu	Ala	Leu	Glu	Gly	Ser	Leu	Gln	
			20					25					30		

<210> 153
 <211> 31
 <212> PRT
 <213> Mus musculus

Glu	Val	Glu	Asp	Pro	Gln	Val	Ala	Gln	Leu	Glu	Leu	Gly	Gly	Gly	Pro
1				5				10						15	
Gly	Ala	Gly	Asp	Leu	Gln	Thr	Leu	Ala	Leu	Glu	Val	Ala	Gln	Gln	
			20					25					30		

<210> 154
 <211> 31
 <212> PRT
 <213> Rattus norvegicus

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

Gly	Ala	Gly	Asp	Leu	Gln	Thr	Leu	Ala	Leu	Glu	Val	Ala	Arg	Gln
				20				25					30	

<210> 155

<211> 31

<212> PRT

<213> Rattus norvegicus

<400> 155

Glu	Val	Glu	Asp	Pro	Gln	Val	Pro	Gln	Leu	Glu	Leu	Gly	Gly	Gly	Pro
1				5				10					15		
Glu	Ala	Gly	Asp	Leu	Gln	Thr	Leu	Ala	Leu	Glu	Val	Ala	Arg	Gln	
				20				25					30		

<210> 156

<211> 31

<212> PRT

<213> Equus caballus

<400> 156

Glu	Ala	Glu	Asp	Pro	Gln	Val	Gly	Gln	Glu	Glu	Leu	Gly	Gly	Gly	Pro
1				5				10					15		
Gly	Leu	Gly	Gly	Leu	Gln	Pro	Leu	Ala	Leu	Ala	Gly	Pro	Gln	Gln	
				20				25					30		

<210> 157

<211> 31

<212> PRT

<213> Equus caballus

<400> 157

Glu	Ala	Glu	Asp	Pro	Gln	Val	Gly	Glu	Val	Glu	Leu	Gly	Gly	Gly	Pro
1				5				10					15		
Gly	Leu	Gly	Gly	Leu	Gln	Pro	Leu	Ala	Leu	Ala	Gly	Pro	Gln	Gln	
				20				25					30		

<210> 158

<211> 31

<212> PRT

<213> Equus caballus

<400> 158

Glu	Ala	Glu	Asp	Pro	Gln	Val	Gly	Gln	Val	Glu	Leu	Gly	Gly	Gly	Pro
1				5				10					15		
Gly	Leu	Gly	Gly	Leu	Gln	Pro	Leu	Ala	Leu	Ala	Gly	Pro	Gln	Gln	
				20				25					30		

<210> 159
<211> 31
<212> PRT
<213> Chinchilla lanigera

<400> 159
Glu Leu Glu Asp Pro Gln Val Gly Gln Ala Asp Pro Gly Val Val Pro
1 5 10 15
Glu Ala Gly Arg Leu Gln Pro Leu Ala Leu Glu Met Thr Leu Gln
20 25 30

<210> 160
<211> 31
<212> PRT
<213> Cavia porcellus

<400> 160
Glu Leu Glu Asp Pro Gln Val Glu Gln Thr Glu Leu Gly Met Gly Leu
1 5 10 15
Gly Ala Gly Gly Leu Gln Pro Leu Ala Leu Glu Met Ala Leu Gln
20 25 30

<210> 161
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 161
Glu Val Glu Glu Leu Gln Val Gly Gln Ala Glu Leu Gly Gly Gly Pro
1 5 10 15
Gly Ala Gly Gly Leu Gln Pro Ser Ala Leu Glu Leu Ala Leu Gln
20 25 30

<210> 162
<211> 31
<212> PRT
<213> Canis lupus

<400> 162
Glu Val Glu Asp Leu Gln Val Arg Asp Val Glu Leu Ala Gly Ala Pro
1 5 10 15
Gly Glu Gly Gly Leu Gln Pro Leu Ala Leu Glu Gly Ala Leu Gln
20 25 30

<210> 163

<211> 31
<212> PRT
<213> Felis catus

<400> 163
Glu Ala Glu Asp Leu Gln Gly Lys Asp Ala Glu Leu Gly Glu Ala Pro
1 5 10 15
Gly Ala Gly Gly Leu Gln Pro Ser Ala Leu Glu Ala Pro Leu Gln
20 25 30

<210> 164
<211> 26
<212> PRT
<213> Bos taurus

<400> 164
Glu Val Glu Gly Pro Gln Val Gly Ala Leu Glu Leu Ala Gly Gly Pro
1 5 10 15
Gly Ala Gly Gly Leu Glu Gly Pro Pro Gln
20 25

<210> 165
<211> 26
<212> PRT
<213> Bos taurus

<220>
<223> Fleckvieh variant

<400> 165
Glu Val Glu Gly Pro Gln Val Gly Ala Leu Glu Leu Ala Gly Gly Leu
1 5 10 15
Gly Ala Gly Gly Leu Glu Gly Pro Pro Gln
20 25

<210> 166
<211> 29
<212> PRT
<213> Sus scrofa

<400> 166
Glu Ala Glu Asn Pro Gln Ala Gly Ala Val Glu Leu Gly Gly Gly Leu
1 5 10 15
Gly Gly Leu Gln Ala Leu Ala Leu Glu Gly Pro Pro Gln
20 25

<210> 167

<211> 29

<212> PRT

<213> Mus musculus

<400> 167

Glu Val Glu Asp Pro Gln Val Glu Gln Leu Glu Leu Gly Gly Ser Pro
1 5 10 15
Gly Asp Leu Gln Thr Leu Ala Leu Glu Val Ala Arg Gln
20 25

<210> 168

<211> 20

<212> PRT

<213> Homo sapiens

<400> 168

Pro Val Leu Pro Val Pro Pro Gly Phe Pro Pro Gly Pro Gln Ile Pro
1 5 10 15
Val Pro Arg Pro
20

<210> 169

<211> 11

<212> PRT

<213> Homo sapiens

<400> 169

Thr Cys Glu Glu Gly Phe Glu Pro Gly Pro Met
1 5 10

<210> 170

<211> 41

<212> PRT

<213> Homo sapiens

<400> 170

Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro
1 5 10 15
Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val
20 25 30
Ala Pro Gly Val Gly Val Ala Pro Gly
35 40

<210> 171

<211> 20

<212> PRT
<213> Homo sapiens

<400> 171
Leu Pro Met Gly Gly Ile Pro Gly Ser Ala Gly Ser Arg Pro Gly Gly
1 5 10 15
Thr Gly Gly Asn
20

<210> 172
<211> 11
<212> PRT
<213> Homo sapiens

<400> 172
Asn Cys Asn Glu Gly Phe Glu Pro Gly Pro Met
1 5 10

<210> 173
<211> 31
<212> PRT
<213> Psammomys obesus

<400> 173
Gly Val Asp Asp Pro Gln Met Pro Gln Leu Glu Leu Gly Gly Ser Pro
1 5 10 15
Gly Ala Gly Asp Leu Arg Ala Leu Ala Leu Glu Val Ala Arg Gln
20 25 30

<210> 174
<211> 31
<212> PRT
<213> Heterocephalus glaber

<400> 174
Glu Leu Glu Asn Leu Gln Val Gly Gln Ala Glu Pro Gly Met Gly Leu
1 5 10 15
Glu Ala Gly Gly Leu Gln Pro Leu Ala Gln Glu Leu Ala Leu Gln
20 25 30

<210> 175
<211> 18
<212> PRT
<213> Homo sapiens

<400> 175

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

<210> 176

<211> 14

<212> PRT

<213> Homo sapiens

<400> 176

Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro Leu
1 5 10

<210> 177

<211> 33

<212> PRT

<213> Homo sapiens

<400> 177

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

<210> 178

<211> 26

<212> PRT

<213> Homo sapiens

<400> 178

Met Leu Gly Thr Tyr Thr Gln Asp Phe Asn Lys Phe His Thr Phe Pro
1 5 10 15
Gln Thr Ala Ile Gly Val Gly Ala Pro Gly
20 25

<210> 179

<211> 18

<212> PRT

<213> Homo sapiens

<400> 179

Phe Asn Lys Phe His Thr Phe Pro Gln Thr Ala Ile Gly Val Gly Ala
1 5 10 15
Pro Gly

<210> 180

<211> 12

<212> PRT

<213> Homo sapiens

<400> 180

Phe Pro Gln Thr Ala Ile Gly Val Gly Ala Pro Gly
1 5 10

<210> 181

<211> 8

<212> PRT

<213> Homo sapiens

<400> 181

Ala Ile Gly Val Gly Ala Pro Gly
1 5

<210> 182

<211> 21

<212> PRT

<213> Homo sapiens

<400> 182

Ser His Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser
1 5 10 15
Gly Leu Gln Glu Gln
20

<210> 183

<211> 19

<212> PRT

<213> Homo sapiens

<400> 183

Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly Leu
1 5 10 15
Gln Glu Gln

<210> 184
<211> 14
<212> PRT
<213> Homo sapiens

<400> 184
Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser
1 5 10

<210> 185
<211> 9
<212> PRT
<213> Homo sapiens

<400> 185
Pro Leu Gly Ser Pro Gly Ser Ala Ser
1 5

<210> 186
<211> 6
<212> PRT
<213> Homo sapiens

<400> 186
Pro Leu Gly Ser Pro Gly
1 5

<210> 187
<211> 31
<212> PRT
<213> Homo sapiens

<400> 187
Glu Asp Val Ser Ala Gly Glu Asp Cys Gly Pro Leu Pro Glu Gly Gly
1 5 10 15
Pro Glu Pro Arg Ser Asp Gly Ala Lys Pro Gly Pro Arg Glu Gly
20 25 30

<210> 188
<211> 26
<212> PRT
<213> Homo sapiens

<400> 188

Gly Glu Asp Cys Gly Pro Leu Pro Glu Gly Gly Pro Glu Pro Arg Ser
1 5 10 15
Asp Gly Ala Lys Pro Gly Pro Arg Glu Gly
20 25

<210> 189

<211> 21

<212> PRT

<213> Homo sapiens

<400> 189

Pro Leu Pro Glu Gly Gly Pro Glu Pro Arg Ser Asp Gly Ala Lys Pro
1 5 10 15
Gly Pro Arg Glu Gly
20

<210> 190

<211> 17

<212> PRT

<213> Homo sapiens

<400> 190

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

<210> 191

<211> 7

<212> PRT

<213> Homo sapiens

<400> 191

Ser Asp Gly Ala Lys Pro Gly
1 5

<210> 192

<211> 24

<212> PRT

<213> Homo sapiens

<400> 192

Arg Arg Asn Ala Ser Ser Ala Gly Arg Leu Gln Gly Leu Ala Gly Gly
1 5 10 15

Ala Pro Gly Gln Lys Glu Cys Arg

20

<210> 193

<211> 16

<212> PRT

<213> Homo sapiens

<400> 193

Arg Leu Gln Gly Leu Ala Gly Gly Ala Pro Gly Gln Lys Glu Cys Arg

1 5 10 15

<210> 194

<211> 20

<212> PRT

<213> Homo sapiens

<400> 194

Arg Arg Asn Ala Ser Ser Ala Gly Arg Leu Gln Gly Leu Ala Gly Gly

1 5 10 15

Ala Pro Gly Gln

20

<210> 195

<211> 11

<212> PRT

<213> Homo sapiens

<400> 195

Leu Gln Gly Leu Ala Gly Gly Ala Pro Gly Gln

1 5 10

<210> 196

<211> 6

<212> PRT

<213> Homo sapiens

<400> 196

Ala Gly Gly Ala Pro Gly

1 5

<210> 197

<211> 6

<212> PRT

<213> Homo sapiens

<400> 197

Tyr Gly Tyr Gly Pro Gly

1 5

<210> 198

<211> 6

<212> PRT

<213> Homo sapiens

<400> 198

Tyr Gly Ala Arg Pro Gly

1 5

<210> 199

<211> 6

<212> PRT

<213> Homo sapiens

<400> 199

Phe Gly Ala Val Pro Gly

1 5

<210> 200

<211> 6

<212> PRT

<213> Homo sapiens

<400> 200

Gly Val Gly Ala Pro Gly

1 5

<210> 201

<211> 6

<212> PRT

<213> Homo sapiens

<400> 201

Asp Gly Ala Lys Pro Gly

1 5

<210> 202

<211> 6

<212> PRT

<213> Homo sapiens

<400> 202

Gln Gly Met Leu Pro Gly

1 5

<210> 203

<211> 10

<212> PRT

<213> Homo sapiens

<400> 203

Phe Gly Leu Val Pro Gly Val Gly Val Ala

1 5 10

<210> 204

<211> 10

<212> PRT

<213> Homo sapiens

<400> 204

Gly Val Ala Pro Gly Ile Gly Pro Gly Gly

1 5 10

<210> 205

<211> 28

<212> PRT

<213> Homo sapiens

<400> 205

Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro Gly Ala Tyr Pro Gly

1 5 10 15

Ala Pro Gly Ala Tyr Pro Gly Ala Pro Ala Pro Gly

20 25

<210> 206

<211> 10

<212> PRT

<213> Homo sapiens

<400> 206

Thr Cys Glu Glu Gly Phe Glu Pro Gly Pro

1 5 10

<210> 207

<211> 10
<212> PRT
<213> Homo sapiens

<400> 207
Asn Pro Leu Gly Thr Ile Pro Gly Gly Asn
1 5 10

<210> 208
<211> 35
<212> PRT
<213> Homo sapiens

<400> 208
Arg Arg Glu Ala Glu Asp Leu Gln Val Gly Gln Val Glu Leu Gly Gly
1 5 10 15
Gly Pro Gly Ala Gly Ser Leu Gln Pro Leu Ala Leu Glu Gly Ser Leu
20 25 30
Gln Lys Arg
35

<210> 209
<211> 18
<212> PRT
<213> Homo sapiens

<400> 209
Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn
1 5 10 15
Tyr Arg

<210> 210
<211> 38
<212> PRT
<213> Homo sapiens

<400> 210
Lys Arg Cys Gly Asn Leu Ser Thr Cys Met Leu Gly Thr Tyr Thr Gln
1 5 10 15
Asp Phe Asn Lys Phe His Thr Phe Pro Gln Thr Ala Ile Gly Val Gly
20 25 30
Ala Pro Gly Lys Lys Arg
35

<210> 211
<211> 23
<212> PRT
<213> Homo sapiens

<400> 211
Arg Ser His Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr
1 5 10 15
Ser Gly Leu Gln Glu Gln Arg
20

<210> 212
<211> 35
<212> PRT
<213> Homo sapiens

<400> 212
Lys Arg Glu Asp Val Ser Ala Gly Glu Asp Cys Gly Pro Leu Pro Glu
1 5 10 15
Gly Gly Pro Glu Pro Arg Ser Asp Gly Ala Lys Pro Gly Pro Arg Glu
20 25 30
Gly Lys Arg
35

<210> 213
<211> 17
<212> PRT
<213> Homo sapiens

<400> 213
Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro Leu
1 5 10 15
Arg

<210> 214
<211> 6
<212> PRT
<213> Homo sapiens

<400> 214
Phe Gly Leu Val Pro Gly
1 5

<210> 215

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

<400> 215
Pro Gly Ile Gly Pro Gly
1 5

<210> 216
<211> 42
<212> PRT
<213> Homo sapiens

<400> 216
Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala
1 5 10 15
Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
20 25 30
Val Ala Pro Gly Val Gly Val Ala Pro Gly
35 40

<210> 217
<211> 16
<212> PRT
<213> Homo sapiens

<400> 217
Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val
1 5 10 15

<210> 218
<211> 6
<212> PRT
<213> Homo sapiens

<400> 218
Gly Ala Gly Val Pro Gly
1 5

<210> 219
<211> 5
<212> PRT
<213> Homo sapiens

<400> 219
Gly Ile Ser Pro Glu
1 5

<210> 220
<211> 8
<212> PRT
<213> Homo sapiens

<400> 220
Leu Gln Gly Val Leu Pro Ala Leu
1 5

<210> 221
<211> 5
<212> PRT
<213> Homo sapiens

<400> 221
Gly Val Leu Pro Ala
1 5

<210> 222
<211> 10
<212> PRT
<213> Homo sapiens

<400> 222
Pro Gly Leu Gly Val Gly Val Gly Val Pro
1 5 10

<210> 223
<211> 8
<212> PRT
<213> Homo sapiens

<400> 223
Gly Val Gly Val Gly Val Pro Gly
1 5

<210> 224
<211> 6
<212> PRT
<213> Homo sapiens

<400> 224

Gly Val Gly Val Pro Gly

1 5

<210> 225

<211> 7

<212> PRT

<213> Homo sapiens

<400> 225

Gly Leu Val Pro Gly Gly Pro

1 5

<210> 226

<211> 6

<212> PRT

<213> Homo sapiens

<400> 226

Pro Gly Phe Pro Pro Gly

1 5

<210> 227

<211> 6

<212> PRT

<213> Homo sapiens

<400> 227

Glu Lys Gly Pro Asp Pro

1 5

<210> 228

<211> 26

<212> PRT

<213> Homo sapiens

<400> 228

Glu Val Glu Gly Pro Gln Val Gly Ala Leu Glu Leu Ala Gly Gly Leu

1 5 10 15

Gly Ala Gly Gly Leu Glu Gly Pro Pro Gln

20 25

<210> 229

<211> 7

<212> PRT

<213> Bos taurus

<400> 229

Ala Gly Gly Leu Gly Ala Gly

1 5

<210> 230

<211> 7

<212> PRT

<213> Bos taurus

<400> 230

Ala Gly Gly Pro Gly Ala Gly

1 5