

# SEQUENCE LISTING

<110> B.R.A.H.M.S AG

<120> In vitro-method for the diagnosis, prognosis, monitoring and therapy follow-up of disorders associated with the metabolic syndrome, a cardiovascular disease and/or insulin resistance

<130> B60406PCT

<150> EP 08168120.7

<151> 2008-10-31

<160> 24

<170> PatentIn version 3.3

<210> 1

<211> 185

<212> PRT

<213> Homo sapiens

<400> 1

Met	Lys	Leu	Val	Ser	Val	Ala	Leu	Met	Tyr	Leu	Gly	Ser	Leu	Ala	Phe
1				5					10					15	

Leu	Gly	Ala	Asp	Thr	Ala	Arg	Leu	Asp	Val	Ala	Ser	Glu	Phe	Arg	Lys
			20					25					30		

Lys	Trp	Asn	Lys	Trp	Ala	Leu	Ser	Arg	Gly	Lys	Arg	Glu	Leu	Arg	Met
		35					40					45			

Ser	Ser	Ser	Tyr	Pro	Thr	Gly	Leu	Ala	Asp	Val	Lys	Ala	Gly	Pro	Ala
	50					55					60				

Gln	Thr	Leu	Ile	Arg	Pro	Gln	Asp	Met	Lys	Gly	Ala	Ser	Arg	Ser	Pro
65					70					75					80

Glu	Asp	Ser	Ser	Pro	Asp	Ala	Ala	Arg	Ile	Arg	Val	Lys	Arg	Tyr	Arg
				85					90					95	

Gln	Ser	Met	Asn	Asn	Phe	Gln	Gly	Leu	Arg	Ser	Phe	Gly	Cys	Arg	Phe
			100					105					110		

Gly	Thr	Cys	Thr	Val	Gln	Lys	Leu	Ala	His	Gln	Ile	Tyr	Gln	Phe	Thr
		115					120					125			

Asp Lys Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser Pro Gln  
130 135 140

Gly Tyr Gly Arg Arg Arg Arg Arg Ser Leu Pro Glu Ala Gly Pro Gly  
145 150 155 160

Arg Thr Leu Val Ser Ser Lys Pro Gln Ala His Gly Ala Pro Ala Pro  
165 170 175

Pro Ser Gly Ser Ala Pro His Phe Leu  
180 185

<210> 2  
<211> 164  
<212> PRT  
<213> Homo sapiens

<400> 2

Ala Arg Leu Asp Val Ala Ser Glu Phe Arg Lys Lys Trp Asn Lys Trp  
1 5 10 15

Ala Leu Ser Arg Gly Lys Arg Glu Leu Arg Met Ser Ser Ser Tyr Pro  
20 25 30

Thr Gly Leu Ala Asp Val Lys Ala Gly Pro Ala Gln Thr Leu Ile Arg  
35 40 45

Pro Gln Asp Met Lys Gly Ala Ser Arg Ser Pro Glu Asp Ser Ser Pro  
50 55 60

Asp Ala Ala Arg Ile Arg Val Lys Arg Tyr Arg Gln Ser Met Asn Asn  
65 70 75 80

Phe Gln Gly Leu Arg Ser Phe Gly Cys Arg Phe Gly Thr Cys Thr Val  
85 90 95

Gln Lys Leu Ala His Gln Ile Tyr Gln Phe Thr Asp Lys Asp Lys Asp  
100 105 110

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

Arg Arg Arg Ser Leu Pro Glu Ala Gly Pro Gly Arg Thr Leu Val Ser  
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130

135

140

Ser Lys Pro Gln Ala His Gly Ala Pro Ala Pro Pro Ser Gly Ser Ala  
145 150 155 160

Pro His Phe Leu

<210> 3  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 3

Ala Arg Leu Asp Val Ala Ser Glu Phe Arg Lys Lys Trp Asn Lys Trp  
1 5 10 15

Ala Leu Ser Arg  
20

<210> 4  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 4

Glu Leu Arg Met Ser Ser Ser Tyr Pro Thr Gly Leu Ala Asp Val Lys  
1 5 10 15

Ala Gly Pro Ala Gln Thr Leu Ile Arg Pro Gln Asp Met Lys Gly Ala  
20 25 30

Ser Arg Ser Pro Glu Asp Ser Ser  
35 40

<210> 5  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 5

Tyr Arg Gln Ser Met Asn Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys  
1 5 10 15

Arg Phe Gly Thr Cys Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln  
20 25 30

Phe Thr Asp Lys Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser  
35 40 45

Pro Gln Gly Tyr  
50

<210> 6  
<211> 153  
<212> PRT  
<213> Homo sapiens

<400> 6

Met Ser Ser Phe Ser Thr Thr Thr Val Ser Phe Leu Leu Leu Leu Ala  
1 5 10 15

Phe Gln Leu Leu Gly Gln Thr Arg Ala Asn Pro Met Tyr Asn Ala Val  
20 25 30

Ser Asn Ala Asp Leu Met Asp Phe Lys Asn Leu Leu Asp His Leu Glu  
35 40 45

Glu Lys Met Pro Leu Glu Asp Glu Val Val Pro Pro Gln Val Leu Ser  
50 55 60

Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro Glu Val  
65 70 75 80

Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg Asp Gly Gly Ala  
85 90 95

Leu Gly Arg Gly Pro Trp Asp Ser Ser Asp Arg Ser Ala Leu Leu Lys  
100 105 110

Ser Lys Leu Arg Ala Leu Leu Thr Ala Pro Arg Ser Leu Arg Arg Ser  
115 120 125

Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly Leu  
130 135 140

Gly Cys Asn Ser Phe Arg Tyr Arg Arg

145

150

<210> 7  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<400> 7

Asn Pro Met Tyr Asn Ala Val Ser Asn Ala Asp Leu Met Asp Phe Lys  
 1 5 10 15

Asn Leu Leu Asp His Leu Glu Glu Lys Met Pro Leu Glu Asp Glu Val  
 20 25 30

Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala  
 35 40 45

Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro  
 50 55 60

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

Asp Arg Ser Ala Leu Leu Lys Ser Lys Leu Arg Ala Leu Leu Thr Ala  
 85 90 95

Pro Arg Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg  
 100 105 110

Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
 115 120 125

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

<400> 8

Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly  
 1 5 10 15

Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
 20 25

<210> 9  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 9

Asn Pro Met Tyr Asn Ala Val Ser Asn Ala Asp Leu Met Asp Phe Lys  
 1 5 10 15

Asn Leu Leu Asp His Leu Glu Glu Lys Met Pro Leu Glu Asp Glu Val  
 20 25 30

Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala  
 35 40 45

Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro  
 50 55 60

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

Asp Arg Ser Ala Leu Leu Lys Ser Lys Leu Arg Ala Leu Leu Thr Ala  
 85 90 95

Pro Arg

<210> 10  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 10

Pro Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg Asp  
 1 5 10 15

Gly Gly Ala Leu Gly Arg Gly Pro Trp Asp Ser Ser Asp Arg Ser Ala  
 20 25 30

Leu Leu Lys Ser Lys Leu  
 35

<210> 11

<211> 164  
<212> PRT  
<213> Homo sapiens

<400> 11

Met Pro Asp Thr Met Leu Pro Ala Cys Phe Leu Gly Leu Leu Ala Phe  
1 5 10 15

Ser Ser Ala Cys Tyr Phe Gln Asn Cys Pro Arg Gly Gly Lys Arg Ala  
20 25 30

Met Ser Asp Leu Glu Leu Arg Gln Cys Leu Pro Cys Gly Pro Gly Gly  
35 40 45

Lys Gly Arg Cys Phe Gly Pro Ser Ile Cys Cys Ala Asp Glu Leu Gly  
50 55 60

Cys Phe Val Gly Thr Ala Glu Ala Leu Arg Cys Gln Glu Glu Asn Tyr  
65 70 75 80

Leu Pro Ser Pro Cys Gln Ser Gly Gln Lys Ala Cys Gly Ser Gly Gly  
85 90 95

Arg Cys Ala Ala Phe Gly Val Cys Cys Asn Asp Glu Ser Cys Val Thr  
100 105 110

Glu Pro Glu Cys Arg Glu Gly Phe His Arg Arg Ala Arg Ala Ser Asp  
115 120 125

Arg Ser Asn Ala Thr Gln Leu Asp Gly Pro Ala Gly Ala Leu Leu Leu  
130 135 140

Arg Leu Val Gln Leu Ala Gly Ala Pro Glu Pro Phe Glu Pro Ala Gln  
145 150 155 160

Pro Asp Ala Tyr

<210> 12  
<211> 145  
<212> PRT  
<213> Homo sapiens

<400> 12

Cys Tyr Phe Gln Asn Cys Pro Arg Gly Gly Lys Arg Ala Met Ser Asp  
 1 5 10 15

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

Cys Phe Gly Pro Ser Ile Cys Cys Ala Asp Glu Leu Gly Cys Phe Val  
 35 40 45

Gly Thr Ala Glu Ala Leu Arg Cys Gln Glu Glu Asn Tyr Leu Pro Ser  
 50 55 60

Pro Cys Gln Ser Gly Gln Lys Ala Cys Gly Ser Gly Gly Arg Cys Ala  
 65 70 75 80

Ala Phe Gly Val Cys Cys Asn Asp Glu Ser Cys Val Thr Glu Pro Glu  
 85 90 95

Cys Arg Glu Gly Phe His Arg Arg Ala Arg Ala Ser Asp Arg Ser Asn  
 100 105 110

Ala Thr Gln Leu Asp Gly Pro Ala Gly Ala Leu Leu Leu Arg Leu Val  
 115 120 125

Gln Leu Ala Gly Ala Pro Glu Pro Phe Glu Pro Ala Gln Pro Asp Ala  
 130 135 140

Tyr  
 145

<210> 13  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 13

Cys Tyr Phe Gln Asn Cys Pro Arg Gly  
 1 5

<210> 14  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens



<400> 14

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

Leu Leu Leu Arg Leu Val Gln Leu Ala Gly Ala Pro Glu Pro Phe Glu  
20 25 30

Pro Ala Gln Pro Asp Ala Tyr  
35

<210> 15

<211> 93

<212> PRT

<213> Homo sapiens

<400> 15

Ala Met Ser Asp Leu Glu Leu Arg Gln Cys Leu Pro Cys Gly Pro Gly  
1 5 10 15

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

Gly Cys Phe Val Gly Thr Ala Glu Ala Leu Arg Cys Gln Glu Glu Asn  
35 40 45

Tyr Leu Pro Ser Pro Cys Gln Ser Gly Gln Lys Ala Cys Gly Ser Gly  
50 55 60

Gly Arg Cys Ala Ala Phe Gly Val Cys Cys Asn Asp Glu Ser Cys Val  
65 70 75 80

Thr Glu Pro Glu Cys Arg Glu Gly Phe His Arg Arg Ala  
85 90

<210> 16

<211> 212

<212> PRT

<213> Homo sapiens

<400> 16

Met Asp Tyr Leu Leu Met Ile Phe Ser Leu Leu Phe Val Ala Cys Gln  
1 5 10 15

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

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

Arg Ser Lys Arg Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val  
50 55 60

Tyr Phe Cys His Leu Asp Ile Ile Trp Val Asn Thr Pro Glu His Val  
65 70 75 80

Val Pro Tyr Gly Leu Gly Ser Pro Arg Ser Lys Arg Ala Leu Glu Asn  
85 90 95

Leu Leu Pro Thr Lys Ala Thr Asp Arg Glu Asn Arg Cys Gln Cys Ala  
100 105 110

Ser Gln Lys Asp Lys Lys Cys Trp Asn Phe Cys Gln Ala Gly Lys Glu  
115 120 125

Leu Arg Ala Glu Asp Ile Met Glu Lys Asp Trp Asn Asn His Lys Lys  
130 135 140

Gly Lys Asp Cys Ser Lys Leu Gly Lys Lys Cys Ile Tyr Gln Gln Leu  
145 150 155 160

Val Arg Gly Arg Lys Ile Arg Arg Ser Ser Glu Glu His Leu Arg Gln  
165 170 175

Thr Arg Ser Glu Thr Met Arg Asn Ser Val Lys Ser Ser Phe His Asp  
180 185 190

Pro Lys Leu Lys Gly Lys Pro Ser Arg Glu Arg Tyr Val Thr His Asn  
195 200 205

Arg Ala His Trp  
210

<210> 17  
<211> 195  
<212> PRT

<213> Homo sapiens

<400> 17

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

Asn Gly Gly Glu Lys Pro Thr Pro Ser Pro Pro Trp Arg Leu Arg Arg  
20 25 30

Ser Lys Arg Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr  
35 40 45

Phe Cys His Leu Asp Ile Ile Trp Val Asn Thr Pro Glu His Val Val  
50 55 60

Pro Tyr Gly Leu Gly Ser Pro Arg Ser Lys Arg Ala Leu Glu Asn Leu  
65 70 75 80

Leu Pro Thr Lys Ala Thr Asp Arg Glu Asn Arg Cys Gln Cys Ala Ser  
85 90 95

Gln Lys Asp Lys Lys Cys Trp Asn Phe Cys Gln Ala Gly Lys Glu Leu  
100 105 110

Arg Ala Glu Asp Ile Met Glu Lys Asp Trp Asn Asn His Lys Lys Gly  
115 120 125

Lys Asp Cys Ser Lys Leu Gly Lys Lys Cys Ile Tyr Gln Gln Leu Val  
130 135 140

Arg Gly Arg Lys Ile Arg Arg Ser Ser Glu Glu His Leu Arg Gln Thr  
145 150 155 160

Arg Ser Glu Thr Met Arg Asn Ser Val Lys Ser Ser Phe His Asp Pro  
165 170 175

Lys Leu Lys Gly Lys Pro Ser Arg Glu Arg Tyr Val Thr His Asn Arg  
180 185 190

Ala His Trp  
195

<210> 18  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 18

Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
 1 5 10 15

Leu Asp Ile Ile Trp  
 20

<210> 19  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 19

Arg Ser Ser Glu Glu His Leu Arg Gln Thr Arg Ser Glu Thr Met Arg  
 1 5 10 15

Asn Ser Val Lys Ser Ser Phe His Asp Pro Lys Leu Lys Gly Lys Pro  
 20 25 30

Ser Arg Glu Arg Tyr Val Thr His Asn Arg Ala His Trp  
 35 40 45

<210> 20  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 20

Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
 1 5 10 15

Leu Asp Ile Ile Trp Val Asn Thr Pro Glu His Val Val Pro Tyr Gly  
 20 25 30

Leu Gly Ser Pro Arg Ser  
 35

<210> 21  
 <211> 134  
 <212> PRT

<213> Homo sapiens

<400> 21

Met Asp Pro Gln Thr Ala Pro Ser Arg Ala Leu Leu Leu Leu Leu Phe  
1 5 10 15

Leu His Leu Ala Phe Leu Gly Gly Arg Ser His Pro Leu Gly Ser Pro  
20 25 30

Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn  
35 40 45

His Leu Gln Gly Lys Leu Ser Glu Leu Gln Val Glu Gln Thr Ser Leu  
50 55 60

Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg  
65 70 75 80

Glu Val Ala Thr Glu Gly Ile Arg Gly His Arg Lys Met Val Leu Tyr  
85 90 95

Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser Gly Cys  
100 105 110

Phe Gly Arg Lys Met Asp Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys  
115 120 125

Lys Val Leu Arg Arg His  
130

<210> 22

<211> 108

<212> PRT

<213> Homo sapiens

<400> 22

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

Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln  
20 25 30

Val Glu Gln Thr Ser Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr  
page 13

35

40

45

Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly Ile Arg Gly His  
 50 55 60

Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met  
 65 70 75 80

Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp Arg Ile Ser Ser  
 85 90 95

Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His  
 100 105

&lt;210&gt; 23

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 23

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

Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln  
 20 25 30

Val Glu Gln Thr Ser Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr  
 35 40 45

Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly Ile Arg Gly His  
 50 55 60

Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg  
 65 70 75

&lt;210&gt; 24

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 24

Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp  
 1 5 10 15

Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His  
20 25 30