

eolf-seql
SEQUENCE LISTING

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<110>  INSERM
      Auger, Isabelle

<120>  Method for the diagnosis of early rheumatoid arthrtis

<130>  BCT 120084

<150>  EP 11 305 584
<151>  2011-05-13

<160>  20

<170>  PatentIn version 3.5

<210>  1
<211>  204
<212>  PRT
<213>  Homo sapiens

<400>  1

Met  Glu  Ala  Ala  Gly  Ser  Pro  Ala  Ala  Thr  Glu  Thr  Gly  Lys  Tyr  Ile
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Ala  Ser  Thr  Gln  Arg  Pro  Asp  Gly  Thr  Trp  Arg  Lys  Gln  Arg  Arg  Val
          20          25          30

Lys  Glu  Gly  Tyr  Val  Pro  Gln  Glu  Glu  Val  Pro  Val  Tyr  Glu  Asn  Lys
          35          40          45

Tyr  Val  Lys  Phe  Phe  Lys  Ser  Lys  Pro  Glu  Leu  Pro  Pro  Gly  Leu  Ser
          50          55          60

Pro  Glu  Ala  Thr  Ala  Pro  Val  Thr  Pro  Ser  Arg  Pro  Glu  Gly  Gly  Glu
65          70          75          80

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

Arg  Arg  Gln  Gln  Gln  Glu  Lys  Gly  Glu  Ala  Glu  Ala  Leu  Ser  Arg  Thr
          100          105          110

Leu  Asp  Lys  Val  Ser  Leu  Glu  Glu  Thr  Ala  Gln  Leu  Pro  Ser  Ala  Pro
          115          120          125

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

Ala  Ala  Thr  Thr  Glu  Lys  Ala  Lys  Lys  Ile  Lys  Asn  Leu  Lys  Lys  Lys
145          150          155          160

Leu  Arg  Gln  Val  Glu  Glu  Leu  Gln  Gln  Arg  Ile  Gln  Ala  Gly  Glu  Val
          165          170          175

Ser  Gln  Pro  Ser  Lys  Glu  Gln  Leu  Glu  Lys  Leu  Ala  Arg  Arg  Arg  Ala

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180

185

190

Leu Glu Glu Glu Leu Glu Asp Leu Glu Leu Gly Leu
 195 200

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

<400> 2

Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu Asp Lys Glu
 1 5 10 15

Asn Ala Ile Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys Lys Gln Ala
 20 25 30

Glu Asp Arg Cys Lys Gln Leu Glu Glu Glu Gln Gln Ala Leu Gln Lys
 35 40 45

Lys Leu Lys Gly Thr Glu Asp Glu Val Glu Lys Tyr Ser Glu Ser Val
 50 55 60

Lys Glu Ala Gln Glu Lys Leu Glu Gln Ala Glu Lys Lys Ala Thr Asp
 65 70 75 80

Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln Leu Val Glu
 85 90 95

Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln Lys
 100 105 110

Leu Glu Glu Ala Glu Lys Ala Ala Asp Glu Ser Glu Arg Gly Met Lys
 115 120 125

Val Ile Glu Asn Arg Ala Met Lys Asp Glu Glu Lys Met Glu Leu Gln
 130 135 140

Glu Met Gln Leu Lys Glu Ala Lys His Ile Ala Glu Asp Ser Asp Arg
 145 150 155 160

Lys Tyr Glu Glu Val Ala Arg Lys Leu Val Ile Leu Glu Gly Glu Leu
 165 170 175

Glu Arg Ser Glu Glu Arg Ala Glu Val Ala Glu Ser Lys Cys Gly Asp
 180 185 190

Leu Glu Glu Glu Leu Lys Ile Val Thr Asn Asn Leu Lys Ser Leu Glu
 195 200 205

Ala Gln Ala Asp Lys Tyr Ser Thr Lys Glu Asp Lys Tyr Glu Glu Glu
 210 215 220

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Ile Lys Leu Leu Glu Glu Lys Leu Lys Glu Ala Glu Thr Arg Ala Glu
225 230 235 240

Phe Ala Glu Arg Ser Val Ala Lys Leu Glu Lys Thr Ile Asp Asp Leu
245 250 255

Glu Asp Glu Val Tyr Ala Gln Lys Met Lys Tyr Lys Ala Ile Ser Glu
260 265 270

Glu Leu Asp Asn Ala Leu Asn Asp Ile Thr Ser Leu
275 280

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

<400> 3

Met Lys Tyr Gly Asn Pro Asn Tyr Gly Gly Met Lys Gly Ile Leu Ser
1 5 10 15

Asn Ser Trp Lys Arg Arg Tyr His Ser Arg Arg Ile Gln Arg Asp Val
20 25 30

Ile Lys Lys Arg Ala Leu Ile Gly Asp Asp Val Gly Leu Thr Ser Tyr
35 40 45

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

Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp
65 70 75 80

Gln Asp Met Asp Ala Asp Asp Arg Val Val Val Glu Tyr His Glu Glu
85 90 95

Leu Pro Ala Leu Lys Gln Pro Arg Glu Arg Ser Ala Ser Arg Arg Ser
100 105 110

Ser Ala Ser Ser Ser Asp Ser Asp Glu Met Asp Tyr Asp Leu Glu Leu
115 120 125

Lys Met Ile Ser Thr Pro Ser Pro Lys Lys Ser Met Lys Met Thr Met
130 135 140

Tyr Ala Asp Glu Val Glu Ser Gln Leu Lys Asn Ile Arg Asn Ser Met
145 150 155 160

Arg Ala Asp Ser Val Ser Ser Ser Asn Ile Lys Asn Arg Ile Gly Asn
165 170 175

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Lys Leu Pro Pro Glu Lys Phe Ala Asp Val Arg His Leu Leu Asp Glu
180 185 190

Lys Arg Gln His Ser Arg Pro Arg Pro Pro Val Ser Ser Thr Lys Ser
195 200 205

Asp Ile Arg Gln Arg Leu Gly Lys Arg Pro His Ser Pro Glu Lys Ala
210 215 220

Phe Ser Ser Asn Pro Val Val Arg Arg Glu Pro Ser Ser Asp Val His
225 230 235 240

Ser Arg Leu Gly Val Pro Arg Gln Asp Ser Lys Gly Leu Tyr Ala Asp
245 250 255

Thr Arg Glu Lys Lys Ser Gly Asn Leu Trp Thr Arg Leu Gly Ser Ala
260 265 270

Pro Lys Thr Lys Glu Lys Asn Thr Lys Lys Val Asp His Arg Ala Pro
275 280 285

Gly Ala Glu Glu Asp Asp Ser Glu Leu Gln Arg Ala Trp Gly Ala Leu
290 295 300

Ile Lys Glu Lys Glu Gln Ser Arg Gln Lys Lys Ser Arg Leu Asp Asn
305 310 315 320

Leu Pro Ser Leu Gln Ile Glu Val Ser Arg Glu Ser Ser Ser Gly Ser
325 330 335

Glu Ala Glu Ser
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<210> 4
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<213> Homo sapiens

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Met Leu Ala Gly Gln Leu Glu Ala Arg Asp Pro Lys Glu Gly Thr His
1 5 10 15

Pro Glu Asp Pro Cys Pro Gly Ala Gly Ala Val Met Glu Lys Thr Ala
20 25 30

Val Ala Ala Glu Val Leu Thr Glu Asp Cys Asn Thr Gly Glu Met Pro
35 40 45

Pro Leu Gln Gln Gln Ile Ile Arg Leu His Gln Glu Leu Gly Arg Gln
50 55 60

self-seq1

Lys Ser Leu Trp Ala Asp Val His Gly Lys Leu Arg Ser His Ile Asp
65 70 75 80

Ala Leu Arg Glu Gln Asn Met Glu Leu Arg Glu Lys Leu Arg Ala Leu
85 90 95

Gln Leu Gln Arg Trp Lys Ala Arg Lys Lys Ser Ala Ala Ser Pro His
100 105 110

Ala Gly Gln Glu Ser His Thr Leu Ala Leu Glu Pro Ala Phe Gly Lys
115 120 125

Ile Ser Pro Leu Ser Ala Asp Glu Glu Thr Ile Pro Lys Tyr Ala Gly
130 135 140

His Lys Asn Gln Ser Ala Thr Leu Leu Gly Gln Arg Ser Ser Ser Asn
145 150 155 160

Asn Ser Ala Pro Pro Lys Pro Met Ser Leu Lys Ile Glu Arg Ile Ser
165 170 175

Ser Trp Lys Thr Pro Pro Gln Glu Asn Arg Asp Lys Asn Leu Ser Arg
180 185 190

Arg Arg Gln Asp Arg Arg Ala Thr Pro Thr Gly Arg Pro Thr Pro Cys
195 200 205

Ala Glu Arg Arg Gly Gly Val
210 215

<210> 5
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<213> Homo sapiens

<400> 5

Met Ala Arg Gly Gln Gln Lys Ile Gln Ser Gln Gln Lys Asn Ala Lys
1 5 10 15

Lys Gln Ala Gly Gln Lys Lys Lys Gln Gly His Asp Gln Lys Ala Ala
20 25 30

Ala Lys Ala Ala Leu Ile Tyr Thr Cys Thr Val Cys Arg Thr Gln Met
35 40 45

Pro Asp Pro Lys Thr Phe Lys Gln His Phe Glu Ser Lys His Pro Lys
50 55 60

Thr Pro Leu Pro Pro Glu Leu Ala Asp Val Gln Ala
65 70 75

<210> 6

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<211> 351
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 <213> Homo sapiens

<400> 6

Met Ser Asp Lys Asn Gln Ile Ala Ala Arg Ala Ser Leu Ile Glu Gln
 1 5 10 15

Leu Met Ser Lys Arg Asn Phe Glu Asp Leu Gly Asn His Leu Thr Glu
 20 25 30

Leu Glu Thr Ile Tyr Val Thr Lys Glu His Leu Gln Glu Thr Asp Val
 35 40 45

Val Arg Ala Val Tyr Arg Val Leu Lys Asn Cys Pro Ser Val Ala Leu
 50 55 60

Lys Lys Lys Ala Lys Cys Leu Leu Ser Lys Trp Lys Ala Val Tyr Lys
 65 70 75 80

Gln Thr His Ser Lys Ala Arg Asn Ser Pro Lys Leu Phe Pro Val Arg
 85 90 95

Gly Asn Lys Glu Glu Asn Ser Gly Pro Ser His Asp Pro Ser Gln Asn
 100 105 110

Glu Thr Leu Gly Ile Cys Ser Ser Asn Ser Leu Ser Ser Gln Asp Val
 115 120 125

Ala Lys Leu Ser Glu Met Ile Val Pro Glu Asn Arg Ala Ile Gln Leu
 130 135 140

Lys Pro Lys Glu Glu His Phe Gly Asp Gly Asp Pro Glu Ser Thr Gly
 145 150 155 160

Lys Arg Ser Ser Glu Leu Leu Asp Pro Thr Thr Pro Met Arg Thr Lys
 165 170 175

Cys Ile Glu Leu Leu Tyr Ala Ala Leu Thr Ser Ser Ser Thr Asp Gln
 180 185 190

Pro Lys Ala Asp Leu Trp Gln Asn Phe Ala Arg Glu Ile Glu Glu His
 195 200 205

Val Phe Thr Leu Tyr Ser Lys Asn Ile Lys Lys Tyr Lys Thr Cys Ile
 210 215 220

Arg Ser Lys Val Ala Asn Leu Lys Asn Pro Arg Asn Ser His Leu Gln
 225 230 235 240

Gln Asn Leu Leu Ser Gly Thr Thr Ser Pro Arg Glu Phe Ala Glu Met
 245 250 255

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Thr Val Met Glu Met Ala Asn Lys Glu Leu Lys Gln Leu Arg Ala Ser
260 265 270

Tyr Thr Glu Ser Cys Ile Gln Glu His Tyr Leu Pro Gln Val Ile Asp
275 280 285

Gly Thr Gln Thr Asn Lys Ile Lys Cys Arg Arg Cys Glu Lys Tyr Asn
290 295 300

Cys Lys Val Thr Val Ile Asp Arg Gly Thr Leu Phe Leu Pro Ser Trp
305 310 315 320

Val Arg Asn Ser Asn Pro Asp Glu Gln Met Met Thr Tyr Val Ile Cys
325 330 335

Asn Glu Cys Gly Glu Gln Trp Tyr His Ser Lys Trp Val Cys Trp
340 345 350

<210> 7
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Met Ser Gly Arg Glu Gly Gly Lys Lys Lys Pro Leu Lys Gln Pro Lys
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Lys Gln Ala Lys Glu Met Asp Glu Glu Asp Lys Ala Phe Lys Gln Lys
20 25 30

Gln Lys Glu Glu Gln Lys Lys Leu Glu Glu Leu Lys Ala Lys Ala Ala
35 40 45

Gly Lys Gly Pro Leu Ala Thr Gly Gly Ile Lys Lys Ser Gly Lys Lys
50 55 60

<210> 8
<211> 83
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<213> Homo sapiens
<400> 8

Met Gly Arg Arg Lys Ser Lys Arg Lys Pro Pro Pro Lys Lys Lys Met
1 5 10 15

Thr Gly Thr Leu Glu Thr Gln Phe Thr Cys Pro Phe Cys Asn His Glu
20 25 30

Lys Ser Cys Asp Val Lys Met Asp Arg Ala Arg Asn Thr Gly Val Ile
35 40 45

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Ser Cys Thr Val Cys Leu Glu Glu Phe Gln Thr Pro Ile Thr Tyr Leu
50 55 60

Ser Glu Pro Val Asp Val Tyr Ser Asp Trp Ile Asp Ala Cys Glu Ala
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Ala Asn Gln

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

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Met Lys Trp Met Phe Lys Glu Asp His Ser Leu Glu His Arg Cys Val
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Glu Ser Ala Lys Ile Arg Ala Lys Tyr Pro Asp Arg Val Pro Val Ile
20 25 30

Val Glu Lys Val Ser Gly Ser Gln Ile Val Asp Ile Asp Lys Arg Lys
35 40 45

Tyr Leu Val Pro Ser Asp Ile Thr Val Ala Gln Phe Met Trp Ile Ile
50 55 60

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

Asp Lys Thr Val Pro Gln Ser Ser Leu Thr Met Gly Gln Leu Tyr Glu
85 90 95

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

Asn Thr Phe Gly Phe
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Met Glu Ala Ala Gly Ser Pro Ala Ala Thr Glu Thr Gly Lys Tyr
1 5 10 15

<210> 11
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<400> 11

eolf-seql

Ala Ala Thr Glu Thr Gly Lys Tyr Ile Ala Ser Thr Gln Arg Pro
1 5 10 15

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

<400> 12

Ile Ala Ser Thr Gln Arg Pro Asp Gly Thr Trp Arg Lys Gln Arg
1 5 10 15

<210> 13
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<212> PRT
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<400> 13

Lys Lys Lys Leu Arg Gln Val Glu Glu Leu Gln Gln Arg Ile Gln
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<210> 14
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Gln Lys Met Lys Tyr Lys Ala Ile Ser Glu Glu Leu Asp Asn Ala
1 5 10 15

<210> 15
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<400> 15

Ile Ser Glu Glu Leu Asp Asn Ala Leu Asn Asp Ile Thr Ser Leu
1 5 10 15

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<400> 16

Met Ala Arg Gly Gln Gln Lys Ile Gln Ser Gln Gln Lys Asn Ala
1 5 10 15

<210> 17
<211> 15
<212> PRT
<213> Homo sapiens

<400> 17

Ile Gln Ser Gln Gln Lys Asn Ala Lys Lys Gln Ala Gly Gln Lys

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Met	Lys	Trp	Met	Phe	Lys	Glu	Asp	His	Ser	Leu	Glu	His	Arg	Cys
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Gly	Phe	Leu	Tyr	Val	Ala	Tyr	Ser	Gly	Glu	Asn	Thr	Phe	Gly	Phe
1				5					10					15