

eolf-seql.txt
SEQUENCE LISTING

<110> Commissariat à l'énergie atomique
BRENNAN Paul
GUT, Ivo Glynne
HEATH, Simon
LATHROP, Mark

<120> METHOD FOR TESTING A SUBJECT THOUGHT TO BE PREDISPOSED
TO LUNG CANCER

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eo1f-seq1.txt

Lys Val Ser₃₅ Lys Val Arg Pro Leu₄₀ Pro Ser Tyr Asp₄₅ Asp Gln Asn Phe
 His Val₅₀ Tyr Val Ser Lys Thr₅₅ Lys Asp Gly Pro Thr₆₀ Glu Tyr Val Leu
 Lys Ile Ser Asn Thr Lys₇₀ Ala Ser Lys Asn Pro₇₅ Asp Leu Ile Glu Val₈₀
 Gln Asn His Ile Ile₈₅ Met Phe Leu Lys Ala₉₀ Ala Gly Phe Pro Thr₉₅ Ala
 Ser Val Cys His₁₀₀ Thr Lys Gly Asp Asn₁₀₅ Thr Ala Ser Leu Val₁₁₀ Ser Val
 Asp Ser Gly₁₁₅ Ser Glu Ile Lys Ser Tyr Leu Val Arg Leu₁₂₅ Leu Thr Tyr
 Leu Pro₁₃₀ Gly Arg Pro Ile Ala₁₃₅ Glu Leu Pro Val Ser₁₄₀ Pro Gln Leu Leu
 Tyr Glu Ile Gly Lys Leu₁₅₀ Ala Ala Lys Leu Asp₁₅₅ Lys Thr Leu Gln Arg₁₆₀
 Phe His His Pro Lys₁₆₅ Leu Ser Ser Leu His₁₇₀ Arg Glu Asn Phe Ile₁₇₅ Trp
 Asn Leu Lys Asn₁₈₀ Val Pro Leu Leu Glu₁₈₅ Lys Tyr Leu Tyr Ala₁₉₀ Leu Gly
 Gln Asn Arg₁₉₅ Asn Arg Glu Ile Val₂₀₀ Glu His Val Ile His₂₀₅ Leu Phe Lys
 Glu Glu Val₂₁₀ Met Thr Lys Leu₂₁₅ Ser His Phe Arg Glu₂₂₀ Cys Ile Asn His
 Gly Asp Leu Asn Asp His₂₃₀ Asn Ile Leu Ile Glu₂₃₅ Ser Ser Lys Ser Ala₂₄₀
 Ser Gly Asn Ala Glu₂₄₅ Tyr Gln Val Ser Gly₂₅₀ Ile Leu Asp Phe Gly₂₅₅ Asp
 Met Ser Tyr Gly₂₆₀ Tyr Tyr Val Phe Glu₂₆₅ Val Ala Ile Thr Ile₂₇₀ Met Tyr
 Met Met Ile₂₇₅ Glu Ser Lys Ser Pro₂₈₀ Ile Gln Val Gly Gly₂₈₅ His Val Leu
 Ala Gly Phe Glu Ser Ile Thr₂₉₅ Pro Leu Thr Ala Val₃₀₀ Glu Lys Gly Ala
 Leu Phe Leu Leu Val Cys Ser Arg Phe Cys Gln Ser Leu Val Met Ala

305 310 315 320

Ala Tyr Ser Cys Gln Leu Tyr Pro Glu Asn Lys Asp Tyr Leu Met Val
325 330 335

Thr Ala Lys Thr Gly Trp Lys His Leu Gln Gln Met Phe Asp Met Gly
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Ser Gly Ile Ser Met
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<213> Homo sapiens

<400> 35

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20 25 30

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35 40 45

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

Lys Ile Ser Asn Thr Lys Ala Ser Lys Asn Pro Asp Leu Ile Glu Val
65 70 75 80

Gln Asn His Ile Ile Met Phe Leu Lys Ala Ala Gly Phe Pro Thr Ala
85 90 95

Ser Val Cys His Thr Lys Gly Asp Asn Thr Ala Ser Leu Val Ser Val
100 105 110

Asp Ser Gly Ser Glu Ile Lys Ser Tyr Leu Val Arg Leu Leu Thr Tyr
115 120 125

Leu Pro Gly Arg Pro Ile Ala Glu Leu Pro Val Ser Pro Gln Leu Leu
130 135 140

Tyr Glu Ile Gly Lys Leu Ala Ala Lys Leu Asp Lys Thr Leu Gln Arg
145 150 155 160

Phe His His Pro Lys Leu Ser Ser Leu His Arg Glu Asn Phe Ile Trp
165 170 175

eo1f-seq1.txt

Asn Leu Lys Asn Val Pro Leu Leu Glu Lys Tyr Leu Tyr Ala Leu Gly
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Gln Asn Arg Asn Arg Glu Ile Val Glu His Val Ile His Leu Phe Lys
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Glu Glu Val Met Thr Lys Leu Ser His Phe Arg Glu
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35 40 45

Arg Arg Asn Ile His Lys Leu Leu Asp Glu Val Phe Phe Ser Glu Lys
50 55 60

Ile Tyr Lys Leu Asn Glu Asp Met Ala Cys Ser Val Ala Gly Ile Thr
65 70 75 80

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

Tyr Leu Leu Gln Tyr Gln Glu Pro Ile Pro Cys Glu Gln Leu Val Thr
100 105 110

Ala Leu Cys Asp Ile Lys Gln Ala Tyr Thr Gln Phe Gly Gly Lys Arg
115 120 125

Pro Phe Gly Val Ser Leu Leu Tyr Ile Gly Trp Asp Lys His Tyr Gly
130 135 140

Phe Gln Leu Tyr Gln Ser Asp Pro Ser Gly Asn Tyr Gly Gly Trp Lys
145 150 155 160

Ala Thr Cys Ile Gly Asn Asn Ser Ala Ala Ala Val Ser Met Leu Lys
165 170 175

Gln Asp Tyr Lys Glu Gly Glu Met Thr Leu Lys Ser Ala Leu Ala Leu
180 185 190

Ala Ile Lys Val Leu Asn Lys Thr Met Asp Val Ser Lys Leu Ser Ala
Page 22

195

200

205

Glu Lys Val Glu Ile Ala Thr Leu Thr Arg Glu Asn Gly Lys Thr Val
 210 215 220

Ile Arg Val Leu Lys Gln Lys Glu Val Glu Gln Leu Ile Lys Lys His
 225 230 235 240

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

Ala Gln Arg Gly Leu Ser Glu Pro Ser Ser Ile Ala Lys His Glu Asp
 35 40 45

Ser Leu Leu Lys Asp Leu Phe Gln Asp Tyr Glu Arg Trp Val Arg Pro
 50 55 60

Val Glu His Leu Asn Asp Lys Ile Lys Ile Lys Phe Gly Leu Ala Ile
 65 70 75 80

Ser Gln Leu Val Asp Val Asp Glu Lys Asn Gln Leu Met Thr Thr Asn
 85 90 95

Val Trp Leu Lys Gln Glu Trp Ile Asp Val Lys Leu Arg Trp Asn Pro
 100 105 110

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

Trp Thr Pro Asp Ile Val Leu Phe Asp Asn Ala Asp Gly Arg Phe Glu
 130 135 140

Gly Thr Ser Thr Lys Thr Val Ile Arg Tyr Asn Gly Thr Val Thr Trp
 145 150 155 160

Thr Pro Pro Ala Asn Tyr Lys Ser Ser Cys Thr Ile Asp Val Thr Phe
 165 170 175

eo1f-seq1.txt

Phe Pro Phe Asp₁₈₀ Leu Gln Asn Cys Ser₁₈₅ Met Lys Phe Gly Ser₁₉₀ Trp Thr
 Tyr Asp Gly₁₉₅ Ser Gln Val Asp Ile₂₀₀ Ile Leu Glu Asp Gln₂₀₅ Asp Val Asp
 Lys Arg₂₁₀ Asp Phe Phe Asp Asn₂₁₅ Gly Glu Trp Glu Ile₂₂₀ Val Ser Ala Thr
 Gly₂₂₅ Ser Lys Gly Asn Arg₂₃₀ Thr Asp Ser Cys Cys₂₃₅ Trp Tyr Pro Tyr Val₂₄₀
 Thr Tyr Ser Phe Val₂₄₅ Ile Lys Arg Leu Pro₂₅₀ Leu Phe Tyr Thr Leu₂₅₅ Phe
 Leu Ile Ile Pro₂₆₀ Cys Ile Gly Leu Ser₂₆₅ Phe Leu Thr Val Leu₂₇₀ Val Phe
 Tyr Leu Pro₂₇₅ Ser Asn Glu Gly Glu₂₈₀ Lys Ile Cys Leu Cys₂₈₅ Thr Ser Val
 Leu Val₂₉₀ Ser Leu Thr Val Phe₂₉₅ Leu Leu Val Ile Glu₃₀₀ Glu Ile Ile Pro
 Ser₃₀₅ Ser Ser Lys Val Ile₃₁₀ Pro Leu Ile Gly Glu₃₁₅ Tyr Leu Val Phe Thr₃₂₀
 Met Ile Phe Val Thr₃₂₅ Leu Ser Ile Met Val₃₃₀ Thr Val Phe Ala Ile₃₃₅ Asn
 Ile His His Arg₃₄₀ Ser Ser Ser Thr His₃₄₅ Asn Ala Met Ala Pro₃₅₀ Leu Val
 Arg Lys Ile₃₅₅ Phe Leu His Thr Leu₃₆₀ Pro Lys Leu Leu Cys₃₆₅ Met Arg Ser
 His Val₃₇₀ Asp Arg Tyr Phe Thr₃₇₅ Gln Lys Glu Glu Thr₃₈₀ Glu Ser Gly Ser
 Gly₃₈₅ Pro Lys Ser Ser Arg₃₉₀ Asn Thr Leu Glu Ala₃₉₅ Ala Leu Asp Ser Ile₄₀₀
 Arg Tyr Ile Thr Arg₄₀₅ His Ile Met Lys Glu₄₁₀ Asn Asp Val Arg Glu₄₁₅ Val
 Val Glu Asp Trp₄₂₀ Lys Phe Ile Ala Gln₄₂₅ Val Leu Asp Arg Met₄₃₀ Phe Leu
 Trp Thr Phe₄₃₅ Leu Phe Val Ser Ile₄₄₀ Val Gly Ser Leu Gly₄₄₅ Leu Phe Val

eo1f-seq1.txt

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Asn Ala Asn Lys
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Glu Ala Glu His Arg Leu Phe Glu Arg Leu Phe Glu Asp Tyr Asn Glu
35 40 45

Ile Ile Arg Pro Val Ala Asn Val Ser Asp Pro Val Ile Ile His Phe
50 55 60

Glu Val Ser Met Ser Gln Leu Val Lys Val Asp Glu Val Asn Gln Ile
65 70 75 80

Met Glu Thr Asn Leu Trp Leu Lys Gln Ile Trp Asn Asp Tyr Lys Leu
85 90 95

Lys Trp Asn Pro Ser Asp Tyr Gly Gly Ala Glu Phe Met Arg Val Pro
100 105 110

Ala Gln Lys Ile Trp Lys Pro Asp Ile Val Leu Tyr Asn Asn Ala Val
115 120 125

Gly Asp Phe Gln Val Asp Asp Lys Thr Lys Ala Leu Leu Lys Tyr Thr
130 135 140

Gly Glu Val Thr Trp Ile Pro Pro Ala Ile Phe Lys Ser Ser Cys Lys
145 150 155 160

Ile Asp Val Thr Tyr Phe Pro Phe Asp Tyr Gln Asn Cys Thr Met Lys
165 170 175

Phe Gly Ser Trp Ser Tyr Asp Lys Ala Lys Ile Asp Leu Val Leu Ile
180 185 190

Gly Ser Ser Met Asn Leu Lys Asp Tyr Trp Glu Ser Gly Glu Trp Ala
195 200 205

Ile Ile Lys Ala Pro Gly Tyr Lys His Asp Ile Lys Tyr Asn Cys Cys
210 215 220

eo1f-seq1.txt

Glu Glu Ile Tyr Pro Asp Ile Thr Tyr Ser Leu Tyr Ile Arg Arg Leu
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 Pro Leu Phe Tyr Thr Ile Asn Leu Ile Ile Pro Cys Leu Leu Ile Ser
 245 250 255
 Phe Leu Thr Val Leu Val Phe Tyr Leu Pro Ser Asp Cys Gly Glu Lys
 260 265 270
 Val Thr Leu Cys Ile Ser Val Leu Leu Ser Leu Thr Val Phe Leu Leu
 275 280 285
 Val Ile Thr Glu Thr Ile Pro Ser Thr Ser Leu Val Ile Pro Leu Ile
 290 295 300
 Gly Glu Tyr Leu Leu Phe Thr Met Ile Phe Val Thr Leu Ser Ile Val
 305 310 315 320
 Ile Thr Val Phe Val Leu Asn Val His Tyr Arg Thr Pro Thr Thr His
 325 330 335
 Thr Met Pro Ser Trp Val Lys Thr Val Phe Leu Asn Leu Leu Pro Arg
 340 345 350
 Val Met Phe Met Thr Arg Pro Thr Ser Asn Glu Gly Asn Ala Gln Lys
 355 360 365
 Pro Arg Pro Leu Tyr Gly Ala Glu Leu Ser Asn Leu Asn Cys Phe Ser
 370 375 380
 Arg Ala Glu Ser Lys Gly Cys Lys Glu Gly Tyr Pro Cys Gln Asp Gly
 385 390 395 400
 Met Cys Gly Tyr Cys His His Arg Arg Ile Lys Ile Ser Asn Phe Ser
 405 410 415
 Ala Asn Leu Thr Arg Ser Ser Ser Ser Glu Ser Val Asp Ala Val Leu
 420 425 430
 Ser Leu Ser Ala Leu Ser Pro Glu Ile Lys Glu Ala Ile Gln Ser Val
 435 440 445
 Lys Tyr Ile Ala Glu Asn Met Lys Ala Gln Asn Glu Ala Lys Glu Ile
 450 455 460
 Gln Asp Asp Trp Lys Tyr Val Ala Met Val Ile Asp Arg Ile Phe Leu
 465 470 475 480
 Trp Val Phe Thr Leu Val Cys Ile Leu Gly Thr Ala Gly Leu Phe Leu
 485 490 495

eo1f-seq1.txt

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20 25 30

Asp Leu Leu Asn Lys Thr Arg Tyr Asn Asn Leu Ile Arg Pro Ala Thr
35 40 45

Ser Ser Ser Gln Leu Ile Ser Ile Lys Leu Gln Leu Ser Leu Ala Gln
50 55 60

Leu Ile Ser Val Asn Glu Arg Glu Gln Ile Met Thr Thr Asn Val Trp
65 70 75 80

Leu Lys Gln Glu Trp Thr Asp Tyr Arg Leu Thr Trp Asn Ser Ser Arg
85 90 95

Tyr Glu Gly Val Asn Ile Leu Arg Ile Pro Ala Lys Arg Ile Trp Leu
100 105 110

Pro Asp Ile Val Leu Tyr Asn Asn Ala Asp Gly Thr Tyr Glu Val Ser
115 120 125

Val Tyr Thr Asn Leu Ile Val Arg Ser Asn Gly Ser Val Leu Trp Leu
130 135 140

Pro Pro Ala Ile Tyr Lys Ser Ala Cys Lys Ile Glu Val Lys Tyr Phe
145 150 155 160

Pro Phe Asp Gln Gln Asn Cys Thr Leu Lys Phe Arg Ser Trp Thr Tyr
165 170 175

Asp His Thr Glu Ile Asp Met Val Leu Met Thr Pro Thr Ala Ser Met
180 185 190

Asp Asp Phe Thr Pro Ser Gly Glu Trp Asp Ile Val Ala Leu Pro Gly
195 200 205

Arg Arg Thr Val Asn Pro Gln Asp Pro Ser Tyr Val Asp Val Thr Tyr
210 215 220

Asp Phe Ile Ile Lys Arg Lys Pro Leu Phe Tyr Thr Ile Asn Leu Ile
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