

JMJD6_ST25
SEQUENCE LISTING

<110> AGENCY FOR SCIENCE TECHNOLOGY AND RESEARCH
Desai, Kartiki V
Lance, Miller D
Edison, Liu T

<120> A biomarker and treatment for cancer

<130> YF 4236

<160> 11

<170> PatentIn version 3.5

<210> 1

<211> 1346

<212> DNA

<213> Homo sapiens

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 Lys Met Lys Tyr Tyr Ile Glu Tyr Met Glu Ser Thr Arg Asp Asp Ser
 115 120 125
 Pro Leu Tyr Ile Phe Asp Ser Ser Tyr Gly Glu His Pro Lys Arg Arg
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 Met Gly Pro Pro Arg Ser Gly Thr Gly Ile His Ile Asp Pro Leu Gly
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 Thr Ser Ala Trp Asn Ala Leu Val Gln Gly His Lys Arg Trp Cys Leu
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 Phe Pro Thr Ser Thr Pro Arg Glu Leu Ile Lys Val Thr Arg Asp Glu
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 Gly Gly Asn Gln Gln Asp Glu Ala Ile Thr Trp Phe Asn Val Ile Tyr
 225 230 235 240
 Pro Arg Thr Gln Leu Pro Thr Trp Pro Pro Glu Phe Lys Pro Leu Glu
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 Ala Asp Ala Leu Gln Leu Ser Val Glu Glu Phe Val Glu Arg Tyr Glu
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 Arg Pro Tyr Lys Pro Val Val Leu Leu Asn Ala Gln Glu Gly Trp Ser
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 Ala Gln Glu Lys Trp Thr Leu Glu Arg Leu Lys Arg Lys Tyr Arg Asn
 85 90 95
 Gln Lys Phe Lys Cys Gly Glu Asp Asn Asp Gly Tyr Ser Val Lys Met
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 Lys Met Lys Tyr Tyr Ile Glu Tyr Met Glu Ser Thr Arg Asp Asp Ser
 115 120 125
 Pro Leu Tyr Ile Phe Asp Ser Ser Tyr Gly Glu His Pro Lys Arg Arg
 130 135 140
 Lys Leu Leu Glu Asp Tyr Lys Val Pro Lys Phe Phe Thr Asp Asp Leu
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 Phe Gln Tyr Ala Gly Glu Lys Arg Arg Pro Pro Tyr Arg Trp Phe Val
 165 170 175
 Met Gly Pro Pro Arg Ser Gly Thr Gly Ile His Ile Asp Pro Leu Gly
 180 185 190
 Thr Ser Ala Trp Asn Ala Leu Val Gln Gly His Lys Arg Trp Cys Leu
 195 200 205
 Phe Pro Thr Ser Thr Pro Arg Glu Leu Ile Lys Val Thr Arg Asp Glu

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210 215 220

Gly Gly Asn Gln Gln Asp Glu Ala Ile Thr Trp Phe Asn Val Ile Tyr
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Pro Arg Thr Gln Leu Pro Thr Trp Pro Pro Glu Phe Lys Pro Leu Glu
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Ile Leu Gln Lys Pro Gly Glu Thr Val Phe Val Pro Gly Gly Trp Trp
 260 265 270

His Val Val Leu Asn Leu Asp Thr Thr Ile Ala Ile Thr Gln Asn Phe
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Ala Ser Ser Thr Asn Phe Pro Val Val Trp His Lys Thr Val Arg Gly
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Arg Pro Lys Leu Ser Arg Lys Trp Tyr Arg Ile Leu Lys Gln Glu His
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Pro Glu Leu Ala Val Leu Ala Asp Ser Val Asp Leu Gln Glu Ser Thr
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35 40 45
Ala Asp Ala Leu Gln Leu Ser Val Glu Glu Phe Val Glu Arg Tyr Glu
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Arg Pro Tyr Lys Pro Val Val Leu Leu Asn Ala Gln Glu Gly Trp Ser
65 70 75 80
Ala Gln Glu Lys Trp Thr Leu Glu Arg Leu Lys Arg Lys Tyr Arg Asn
85 90 95
Gln Lys Phe Lys Cys Gly Glu Asp Asn Asp Gly Tyr Ser Val Lys Met
100 105 110
Lys Met Lys Tyr Tyr Ile Glu Tyr Met Glu Ser Thr Arg Asp Asp Ser
115 120 125
Pro Leu Tyr Ile Phe Asp Ser Ser Tyr Gly Glu His Pro Lys Arg Arg

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140

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Lys Leu Leu Glu Asp Tyr Lys Val Pro Lys Phe Phe Thr Asp Asp Leu
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Phe Gln Tyr Ala Gly Glu Lys Arg Arg Pro Pro Tyr Arg Trp Phe Val
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Met Gly Pro Pro Arg Ser Gly Thr Gly Ile His Ile Asp Pro Leu Gly
 180 185 190

Thr Ser Ala Trp Asn Ala Leu Val Gln Gly His Lys Arg Trp Cys Leu
 195 200 205

Phe Pro Thr Ser Thr Pro Arg Glu Leu Ile Lys Val Thr Arg Asp Glu
210 215 220

Gly Gly Asn Gln Gln Asp Glu Ala Ile Thr Trp Phe Asn Val Ile Tyr
225 230 235 240

Pro Arg Thr Gln Leu Pro Thr Trp Pro Pro Glu Phe Lys Pro Leu Glu
 245 250 255

Ile Leu Gln Lys Pro Gly Glu Thr Val Phe Val Pro Gly Gly Trp Trp
 260 265 270

His Val Val Leu Asn Leu Asp Thr Thr Ile Ala Ile Thr Gln Asn Phe
275 280 285

Ala Ser Ser Thr Asn Phe Pro Val Val Trp His Lys Thr Val Arg Gly
290 295 300

Arg Pro Lys Leu Ser Arg Lys Trp Tyr Arg Ile Leu Lys Gln Glu His
305 310 315 320

Pro Glu Leu Ala Val Leu Ala Asp Ser Val Asp Leu Gln Glu Ser Thr
 325 330 335

Gly Ile Ala Ser Asp Ser Ser Ser Asp Ser Ser Ser Ser Ser Ser Ser
 340 345 350

Ser Ser Ser Asp Ser Asp Ser Glu Cys Glu Ser Gly Ser Glu Gly Asp
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Ala Asp Ala Leu Gln Leu Ser Val Lys Glu Phe Val Glu Arg Tyr Glu
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Arg Pro Tyr Lys Pro Val Val Leu Leu Asn Ala Gln Glu Gly Trp Ser
65 70 75 80

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

Gln Lys Phe Lys Cys Gly Glu Asp Asn Asp Gly Tyr Ser Val Lys Met
100 105 110

Lys Met Lys Tyr Tyr Ile Glu Tyr Met Glu Ser Thr Arg Asp Asp Ser
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Pro Leu Tyr Ile Phe Asp Ser Ser Tyr Gly Glu His Pro Lys Arg Arg
130 135 140

Lys Leu Leu Glu Asp Tyr Lys Val Pro Lys Phe Phe Thr Asp Asp Leu
145 150 155 160

Phe Gln Tyr Ala Gly Glu Lys Arg Arg Pro Pro Tyr Arg Trp Phe Val
165 170 175

Met Gly Pro Pro Arg Ser Gly Thr Gly Ile His Ile Asp Pro Leu Gly
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Thr Ser Ala Trp Asn Ala Leu Val Gln Gly His Lys Arg Trp Cys Leu
195 200 205

Phe Pro Thr Asn Thr Pro Arg Glu Leu Ile Lys Val Thr Arg Glu Glu
210 215 220

Gly Gly Asn Gln Gln Asp Glu Ala Ile Thr Trp Phe Asn Val Ile Tyr
225 230 235 240

Pro Arg Thr Gln Leu Pro Thr Trp Pro Pro Glu Phe Lys Pro Leu Glu
245 250 255

Ile Leu Gln Lys Pro Gly Glu Thr Val Phe Val Pro Gly Gly Trp Trp
260 265 270

His Val Val Leu Asn Leu Asp Thr Thr Ile Ala Ile Thr Gln Asn Phe
275 280 285

Ala Ser Ser Thr Asn Phe Pro Val Val Trp His Lys Thr Val Arg Gly
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Arg Pro Lys Leu Ser Arg Lys Trp Tyr Arg Ile Leu Lys Gln Glu His
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Pro Glu Leu Ala Val Leu Ala Asp Ala Val Asp Leu Gln Glu Ser Thr
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Ser Ser Ser Asp Ser Asp Ser Glu Cys Glu Ser Gly Ser Glu Gly Asp
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