

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

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<170> PatentIn version 3.5

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<212> DNA

<213> Homo sapiens

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

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

Ala Asp Ala Leu Gln Leu Ser Val Glu Glu Phe Val Glu Arg Tyr Glu
50 55 60

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
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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
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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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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
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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
305 310 315 320

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
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Pro Leu Tyr Ile Phe Asp Ser Ser Tyr Gly Glu His Pro Lys Arg Arg

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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
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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
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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
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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
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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 Glu Ser Tyr Pro Leu Asn Pro Ala Ala Val Pro Asp Asn Val Glu Arg
 35 40 45
 Ala Asp Ala Leu Gln Leu Ser Val Lys Glu Phe Val Glu Arg Tyr Glu
 50 55 60
 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
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 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
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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
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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 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
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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
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 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
305 310 315 320

Pro Glu Leu Ala Val Leu Ala Asp Ala Val Asp Leu Gln Glu Ser Thr
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Gly Ile Ala Ser Asp Ser Ser Ser Asp Ser Ser Ser Ser Ser Ser Ser
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Ser Ser Ser Asp Ser Asp Ser Glu Cys Glu Ser Gly Ser Glu Gly Asp
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Asn Gly Asp Thr Thr Ser Gln Asp Asp Cys Val Ser Lys Glu Arg Ser
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Ser Ser Arg

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