

9869sg2351_ST25
SEQUENCE LISTING

<110> Agency for Science, Technology and Research
<120> ENRICHMENT AND CHARACTERIZATION OF HUMAN CORNEAL ENDOTHELIAL
CELLS (HCENC) WITH NOVEL MONOCLONAL ANTIBODY
<130> 9869sg2350
<160> 8
<170> PatentIn version 3.5
<210> 1
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Heavy chain CDR1 of TAG-2A12 (CE2A12)

<400> 1

Gly Tyr Ala Phe Thr Ser Tyr Asn Met Tyr
1 5 10

<210> 2
<211> 17
<212> PRT
<213> Artificial sequence

<220>
<223> Heavy chain CDR2 of TAG-2A12 (CE2A12)

<400> 2

Tyr Ile Asp Pro Tyr Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe Lys
1 5 10 15

Gly

<210> 3
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> Heavy chain CDR3 of TAG-2A12 (CE2A12)

<400> 3

Pro Ile Tyr Asp Gly Tyr Tyr Gly Trp Tyr Phe Asp Val
1 5 10

<210> 4
<211> 10
<212> PRT
<213> Artificial sequence

9869sg2351_ST25

<220>

<223> Light chain CDR1 of TAG-2A12 (CE2A12)

<400> 4

Ser Ala Ser Ser Ser Val Ser Tyr Met Tyr
 1 5 10

<210> 5

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Light chain CDR2 of TAG-2A12 (CE2A12)

<400> 5

Leu Thr Ser Asn Leu Ala Ser
 1 5

<210> 6

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Light chain CDR3 of TAG-2A12 (CE2A12)

<400> 6

Gln Gln Trp Ser Ser Asn Pro Leu Thr
 1 5

<210> 7

<211> 122

<212> PRT

<213> Artificial sequence

<220>

<223> Heavy chain TAG-2A12 (CE2A12)

<400> 7

Gln Val Lys Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Ser Tyr
 20 25 30

Asn Met Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Asp Pro Tyr Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

9869sg2351_ST25

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Pro Ile Tyr Asp Gly Tyr Tyr Gly Trp Tyr Phe Asp Val Trp
 100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 8
 <211> 107
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Light chain TAG-2A12 (CE2A12)

<400> 8

Asp Ile Glu Leu Thr Gln Ser Pro Ala Leu Met Ser Ala Ser Pro Gly
 1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Arg Ser Ser Pro Lys Pro Trp Ile Tyr
 35 40 45

Leu Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
 65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr
 85 90 95

Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 9
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 9

Met Pro Gly Gly Leu Leu Leu Gly Asp Val Ala Pro Asn Phe Glu Ala
 Page 3

9869sg2351_ST25

1 5 10 15
 Asn Thr Thr Val Gly Arg Ile Arg Phe His Asp Phe Leu Gly Asp Ser
 20 25 30
 Trp Gly Ile Leu Phe Ser His Pro Arg Asp Phe Thr Pro Val Cys Thr
 35 40 45
 Thr Glu Leu Gly Arg Ala Ala Lys Leu Ala Pro Glu Phe Ala Lys Arg
 50 55 60
 Asn Val Lys Leu Ile Ala Leu Ser Ile Asp Ser Val Glu Asp His Leu
 65 70 75 80
 Ala Trp Ser Lys Asp Ile Asn Ala Tyr Asn Cys Glu Glu Pro Thr Glu
 85 90 95
 Lys Leu Pro Phe Pro Ile Ile Asp Asp Arg Asn Arg Glu Leu Ala Ile
 100 105 110
 Leu Leu Gly Met Leu Asp Pro Ala Glu Lys Asp Glu Lys Gly Met Pro
 115 120 125
 Val Thr Ala Arg Val Val Phe Val Phe Gly Pro Asp Lys Lys Leu Lys
 130 135 140
 Leu Ser Ile Leu Tyr Pro Ala Thr Thr Gly Arg Asn Phe Asp Glu Ile
 145 150 155 160
 Leu Arg Val Val Ile Ser Leu Gln Leu Thr Ala Glu Lys Arg Val Ala
 165 170 175
 Thr Pro Val Asp Trp Lys Asp Gly Asp Ser Val Met Val Leu Pro Thr
 180 185 190
 Ile Pro Glu Glu Glu Ala Lys Lys Leu Phe Pro Lys Gly Val Phe Thr
 195 200 205
 Lys Glu Leu Pro Ser Gly Lys Lys Tyr Leu Arg Tyr Thr Pro Gln Pro
 210 215 220