

SEQUENCE LISTING

<110> Novo Nordisk A/S

<120> HUMANIZED ANTI-HUMAN NKG2A MONOCLONAL ANTIBODY

<130> 7655.204-WO

<160> 16

<170> PatentIn version 3.5

<210> 1

<211> 321

<212> DNA

<213> Mus musculus

<400> 1

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ttcagtggca gtgggtcttg gacctcttac tctctcacia tcagcagcat ggaggctgaa      240
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<212> PRT

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Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Ile
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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
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Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
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Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Gly Asn Pro Tyr Thr
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Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
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ccagacactg tgaccggccg attcaccatc tccagagaca atgccaagaa caccctgtac 240
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<212> PRT
<213> Mus musculus

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

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

Ala Met Ser Trp Val Arg Gln Ser Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Glu Ile Ser Ser Gly Gly Ser Tyr Thr Tyr Tyr Pro Asp Thr Val
50 55 60

Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Glu Ile Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95

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

Thr Thr Val Thr Val Ser Ser
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<210> 5
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized sequence

<400> 5

Ser Ala Ser Ser Ser Val Ser Ser Tyr Ile Tyr
1 5 10

<210> 6
<211> 7
<212> PRT
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Leu Thr Ser Asn Leu Ala Ser
1 5

<210> 7
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<212> PRT
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<400> 7

Gln Gln Trp Ser Gly Asn Pro Tyr Thr
1 5

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<212> PRT
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Ser Tyr Ala Met Ser
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<400> 9

Glu Ile Ser Ser Gly Gly Ser Tyr Thr Tyr Tyr Ala Asp Ser Val Lys
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Gly

<210> 10
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<212> PRT
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<400> 10

His Gly Asp Tyr Pro Arg Phe Phe Asp Val
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<210> 11
<211> 233
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<213> Homo sapiens

<400> 11

Met Asp Asn Gln Gly Val Ile Tyr Ser Asp Leu Asn Leu Pro Pro Asn
1 5 10 15

Pro Lys Arg Gln Gln Arg Lys Pro Lys Gly Asn Lys Ser Ser Ile Leu
20 25 30

Ala Thr Glu Gln Glu Ile Thr Tyr Ala Glu Leu Asn Leu Gln Lys Ala

35	40	45													
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Leu	Ile	Leu	Met	Ala	Ser	Val	Val	Thr	Ile	Val	Val	Ile	Pro	Ser	Thr
				85					90					95	
Leu	Ile	Gln	Arg	His	Asn	Asn	Ser	Ser	Leu	Asn	Thr	Arg	Thr	Gln	Lys
			100					105					110		
Ala	Arg	His	Cys	Gly	His	Cys	Pro	Glu	Glu	Trp	Ile	Thr	Tyr	Ser	Asn
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Glu	Glu	Met	Lys	Phe	Leu	Ser	Ile	Ile	Ser	Pro	Ser	Ser	Trp	Ile	Gly
				165					170					175	
Val	Phe	Arg	Asn	Ser	Ser	His	His	Pro	Trp	Val	Thr	Met	Asn	Gly	Leu
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Ala	Phe	Lys	His	Glu	Ile	Lys	Asp	Ser	Asp	Asn	Ala	Glu	Leu	Asn	Cys
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225					230										

<210> 12
 <211> 107
 <212> PRT
 <213> Artificial
 <220>

<223> Germline construct

<400> 12

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 13

<211> 107

<212> PRT

<213> Artificial

<220>

<223> Humanized sequence

<400> 13

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

Glu Arg Ala Thr Leu Ser Cys Ser Ala Ser Ser Ser Val Ser Ser Tyr
20 25 30

Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Gly Asn Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 14
<211> 117
<212> PRT
<213> Artificial

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<223> Germline construct

<400> 14

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

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

Ala Arg Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr
100 105 110

Val Thr Val Ser Ser
115

<210> 15
<211> 119

<212> PRT
<213> Artificial

<220>
<223> Humanized sequence

<400> 15

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Glu Ile Ser Ser Gly Gly Ser Tyr Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

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

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

Thr Thr Val Thr Val Ser Ser
115

<210> 16
<211> 138
<212> PRT
<213> Homo sapiens

<400> 16

Ile Pro Phe Leu Glu Gln Asn Asn Ser Ser Pro Asn Thr Arg Thr Gln
1 5 10 15

Lys Ala Arg His Cys Gly His Cys Pro Glu Glu Trp Ile Thr Tyr Ser
20 25 30

Asn Ser Cys Tyr Tyr Ile Gly Lys Glu Arg Arg Thr Trp Glu Glu Ser
35 40 45

Leu Leu Ala Cys Thr Ser Lys Asn Ser Ser Leu Leu Ser Ile Asp Asn
50 55 60

Glu Glu Glu Met Lys Phe Leu Ala Ser Ile Leu Pro Ser Ser Trp Ile
65 70 75 80

Gly Val Phe Arg Asn Ser Ser His His Pro Trp Val Thr Ile Asn Gly
85 90 95

Leu Ala Phe Lys His Lys Ile Lys Asp Ser Asp Asn Ala Glu Leu Asn
100 105 110

Cys Ala Val Leu Gln Val Asn Arg Leu Lys Ser Ala Gln Cys Gly Ser
115 120 125

Ser Met Ile Tyr His Cys Lys His Lys Leu
130 135