

SEQUENCE LISTING

<110> Minomic International Ltd

<120> Therapeutic Antibodies and Uses Thereof

<130> P142353C

<160> 11

<170> PatentIn version 3.5

<210> 1

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<212> DNA

<213> Mus musculus

<400> 1

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<210> 2

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<212> DNA

<213> Mus musculus

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<212> PRT

<213> Mus musculus

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 35 40 45
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 50 55 60
 Gln Leu Leu Val Tyr Thr Ala Lys Thr Leu Ala Asp Gly Val Pro Ser
 65 70 75 80
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn
 85 90 95
 Ser Leu Gln Pro Glu Asp Phe Gly Thr Tyr Tyr Cys Gln His Phe Trp
 100 105 110
 Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125
 Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu Gln
 130 135 140
 Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr
 145 150 155 160
 Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp Gly Ser Glu Arg Gln
 165 170 175
 Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr
 180 185 190
 Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg
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<212> DNA

<213> Artificial Sequence

<220>

<223> Mus musculus/Homo-sapiens chimeric sequence

<400> 5

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 <223> Mus musculus/Homon sapiens chimeric sequence
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 35 40 45
 Thr Asp Tyr Ser Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
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 Arg Trp Met Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Thr
 65 70 75 80
 Asp Asp Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
 85 90 95
 Thr Ala Phe Leu Gln Ile Asn Asn Leu Arg Asn Glu Asp Thr Ala Thr
 100 105 110
 Tyr Phe Cys Ala Arg His Tyr Asp Tyr Gly Gly Phe Pro Tyr Trp Gly
 115 120 125
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 130 135 140
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 145 150 155 160
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 165 170 175
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 180 185 190
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 195 200 205
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 210 215 220
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 225 230 235 240
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 245 250 255
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 260 265 270
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 275 280 285

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 290 295 300
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 305 310 315 320
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 325 330 335
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 340 345 350
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 355 360 365
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 370 375 380
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 385 390 395 400
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 405 410 415
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 420 425 430
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
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 Pro Gly Lys
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 <212> PRT
 <213> Artificial Sequence
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 <223> Mus musculus/Homon sapiens chimeric sequence
 <400> 8

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 35 40 45
 Val His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
 50 55 60
 Gln Leu Leu Val Tyr Thr Ala Lys Thr Leu Ala Asp Gly Val Pro Ser
 65 70 75 80
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn
 85 90 95
 Ser Leu Gln Pro Glu Asp Phe Gly Thr Tyr Tyr Cys Gln His Phe Trp
 100 105 110
 Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125
 Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140
 Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160
 Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175
 Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190
 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205
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 210 215 220
 Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> 9
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 <212> PRT
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 <223> Mus musculus/Homo sapiens chimeric sequence
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 35 40 45
 Thr Asp Tyr Ser Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Arg Trp Met Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Thr
 65 70 75 80
 Asp Asp Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
 85 90 95
 Thr Ala Phe Leu Gln Ile Asn Asn Leu Arg Asn Glu Asp Thr Ala Thr
 100 105 110
 Tyr Phe Cys Ala Arg His Tyr Asp Tyr Gly Gly Phe Pro Tyr Trp Gly
 115 120 125
 Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
 130 135 140
 Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro
 145 150 155 160
 Ala Ser Leu Ser Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg
 165 170 175
 Ala Ser Gly Asn Val His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln
 180 185 190
 Gly Lys Ser Pro Gln Leu Leu Val Tyr Thr Ala Lys Thr Leu Ala Asp
 195 200 205
 Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser
 210 215 220
 Leu Lys Ile Asn Ser Leu Gln Pro Glu Asp Phe Gly Thr Tyr Tyr Cys
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 Glu Ile Lys His His His His His His Cys
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 gacaggggtca gcgtcacctg caaggccagt cagaatgtgg gttctcatgt agcctggttt 180
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 aatggcgctc tgaacagttg gactgatcag gacagcaaag acagcaccta cagcatgagc 600
 agcaccctca cgttgaccaa ggacgagtat gaacgacata acagctatac ctgtgaggcc 660
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 <212> PRT

<213> Mus musculus

<400> 11

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Lys Phe Met Ser Thr Ser Ile Gly Asp Arg Val Ser Val Thr Cys Lys
35      40      45
Ala Ser Gln Asn Val Gly Ser His Val Ala Trp Phe Gln Gln Lys Pro
50      55      60
Gly Gln Ser Pro Lys Ala Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr Ser
65      70      75      80
Gly Val Thr Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
85      90      95
Leu Thr Ile Asn Asn Val Gln Ser Glu Asp Leu Ala Glu Tyr Phe Cys
100     105     110
Gln Gln Tyr Asn Ser Phe Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu
115     120     125
Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro
130     135     140
Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu
145     150     155     160
Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp Gly
165     170     175
Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser
180     185     190
Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp
195     200     205
Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys Thr
210     215     220
Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg Asn Glu Cys
225     230     235

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