

ST-UCSD3650-5WO_ST25.txt
SEQUENCE LISTING

<110> THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
KIPPS, Thomas J.
WIDHOPF, George F.
CUI, Bing

<120> THERAPEUTIC ANTIBODIES AGAINST ROR-1 PROTEIN AND METHODS FOR USE
OF SAME

<130> ST-UCSD3650-5WO

<140> PCT/US2012/021339
<141> 2012-01-13

<150> US 61/433,043
<151> 2011-01-14

<160> 37

<170> PatentIn version 3.5

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35 40 45
Ala Ser Ile Ser Arg Gly Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Val Arg Asn Ile Leu Tyr Leu
65 70 75 80

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

Gly Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Asn Ser Leu Glu Tyr
65 70 75 80

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35 40 45
Gly Ser Ile Asp Pro Tyr Tyr Gly Gly Ser Thr Tyr Asn Gln Lys Phe
50 55 60
Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
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Met Gln Leu Lys Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Tyr Cys
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35 40 45

Tyr Arg Gly Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Met Gln Leu Ser Ser Leu Ala Ser Glu Asp Ser Ala Leu Tyr Tyr Cys
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Ser Val Thr Val Ser Ser
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 Page 5

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Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln
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35 40 45

Gly Val Ile Trp Ala Gly Gly Phe Thr Asn Tyr Asn Ser Ala Leu Lys
50 55 60

Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Leu Leu
65 70 75 80

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35 40 45

Glu Ile Ser Lys Leu Ala Ser Gly Val Pro Val 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
65 70 75 80

Asp Ala Ala Ile Tyr Tyr Cys Gln Gln Trp Asn Tyr Pro Leu Ile Thr
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 35 40 45
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 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
 65 70 75 80
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 35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
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Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Tyr
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 Arg Leu Glu Trp Val Ala Ser Ile Ser Arg Gly Xaa Xaa Xaa Gly Thr
 50 55 60
 Thr Tyr Tyr Pro Asp Ser Val Lys Xaa Gly Arg Phe Thr Ile Ser Arg
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Xaa Xaa Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Thr Pro Glu Lys
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Arg Leu Glu Trp Val Ala Thr Ile Ser Ser Gly Xaa Xaa Xaa Ser Tyr
50 55 60

Thr Tyr Tyr Pro Asp Ser Val Lys Xaa Gly Arg Phe Thr Ile Ser Arg
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35 40 45

Gly Leu Glu Trp Val Ser Tyr Ile Ser Ser Ser Xaa Xaa Ser Ser Thr
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35 40 45

Ser Leu Glu Trp Ile Gly Ser Ile Asp Pro Tyr Xaa Xaa Tyr Gly Gly
50 55 60

Ser Thr Tyr Asn Gln Lys Phe Lys Xaa Asp Lys Ala Thr Leu Thr Val
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 35 40 45

Ser Leu Glu Trp Ile Gly Val Ile Asn Pro Asn Xaa Xaa Xaa Xaa Thr
 50 55 60

Thr Ser Tyr Asn Gln Lys Phe Lys Xaa Gly Lys Ala Thr Leu Thr Val
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Ser Asp Ser Ala Val Tyr Tyr Cys Ala Arg
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35 40 45

Gly Leu Glu Trp Met Gly Trp Ile Asn Pro Asn Xaa Xaa Ser Gly Gly
50 55 60

Thr Asn Tyr Ala Gln Lys Phe Gln Xaa Gly Arg Val Thr Met Thr Arg
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Xaa Xaa Thr Asn Tyr Trp Ile Asn Trp Val Lys Leu Arg Pro Gly Gln
 35 40 45

Gly Leu Glu Trp Ile Gly Glu Ile Tyr Pro Gly Xaa Xaa Ser Gly Ser
 50 55 60

Thr Asn Tyr Asn Glu Lys Phe Lys Xaa Ser Lys Ala Thr Leu Thr Ala
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Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Xaa Xaa
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Xaa Xaa Thr Ser Tyr Trp Ile Thr Trp Val Lys Gln Arg Pro Gly Gln
35 40 45

Gly Leu Glu Trp Ile Gly Asp Ile Tyr Pro Gly Xaa Xaa Ser Gly Ser
50 55 60

Thr Asn Tyr Asn Glu Lys Phe Lys Xaa Ser Lys Ala Thr Leu Thr Val
65 70 75 80

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85 90 95

Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg
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20 25 30

Xaa Xaa Thr Ser Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln
35 40 45

Gly Leu Glu Trp Met Gly Ile Ile Asn Pro Ser Xaa Xaa Gly Gly Ser
50 55 60

Thr Ser Tyr Ala Gln Lys Phe Gln Xaa Gly Arg Val Thr Met Thr Arg
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Arg Leu Glu Trp Val Ala Thr Ile Ser Ser Gly Xaa Xaa Gly Ala Ser
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Thr Tyr Tyr Pro Asp Ser Val Lys Xaa Gly Arg Phe Thr Ile Ser Arg
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Gly Leu Glu Trp Leu Gly Val Ile Trp Ala Gly Xaa Xaa Xaa Gly Phe
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Thr Asn Tyr Asn Ser Ala Leu Lys Xaa Ser Arg Leu Ser Ile Ser Lys
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Ser Ser Glu Leu Asn Lys Asp Ser Tyr Leu Thr Leu Asp Glu Pro Met
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Val Ser Gly Asn Pro Pro Thr Ile Arg Trp Phe Lys Asn Asp Ala
85 90 95

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