

SEQUENCE LISTING

<110> Xoma (US) LLC
 <120> Antibodies That Bind Interleukin-2 and Uses Thereof
 <130> 27129/51134
 <140> PCT/US14/53880
 <141> 2017-09-28
 <150> US 62/421,038
 <151> 2016-11-11
 <150> US 62/401,158
 <151> 2016-09-28
 <160> 40
 <170> PatentIn version 3.5
 <210> 1
 <211> 119
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> MISC_FEATURE
 <223> XPA.92.019 HV
 <220>
 <221> MISC_FEATURE
 <222> (26)..(33)
 <223> H-CDR1
 <220>
 <221> MISC_FEATURE
 <222> (51)..(58)
 <223> H-CDR2
 <220>
 <221> MISC_FEATURE
 <222> (97)..(108)
 <223> H-CDR3
 <400> 1
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
 1 5 10 15

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

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

Ala Asp Ile Ser Asn Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Thr Pro Tyr Tyr Asp Ser Ser Gly Leu Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 2
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> XPA.92.019 HV

<400> 2
gaagtgcagc tgggtggagtc tggggggaggc ttggtccagc ctgggaggct cctgagactc 60
tcctgtgcag cctctggatt caccttcagt tactatggca tgcactgggt ccgccaggct 120
ccaggcaagg ggctagagtg ggtggcagat atatcaaatg atggaagtaa taaatattac 180
gcagactctg tgaagggccg attcaccatc tccagagaca attccaagac cacgctgtat 240
ctgcaaatga acagcctgag acctgaggac acggctgtat attactgtgc gacccttac 300

tatgatagta gtgggttgga ctactggggc caggggaaccc tggtcaccgt ctcctca

357

<210> 3
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.041 HV

<220>
<221> MISC_FEATURE
<222> (26)..(33)
<223> H-CDR1

<220>
<221> MISC_FEATURE
<222> (51)..(58)
<223> H-CDR2

<220>
<221> MISC_FEATURE
<222> (97)..(106)
<223> H-CDR3

<400> 3

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Asn Phe Asp Thr Tyr
20 25 30

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Arg Gly Leu Glu Trp Met
35 40 45

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

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

Leu Gln Trp Gly Ser Leu Arg Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Phe Ser Ser Ser Ala Tyr Asp Ile Trp Gly Gln Gly Thr Met
100 105 110

Val Thr Val Ser Ser
115

<210> 4
<211> 351
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> XPA.92.041 HV

<400> 4
gaggtccagc tggtagcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatt 60
tcctgtaagg gttctggata caactttgac acgtactgga tcggctgggt gcgccagatg 120
cccgaggagag gcctggagtg gatgggcacc atctatcctg ctgactctga caccagatat 180
agcccgctcct tccaaggcca ggtcaccacc tcagccgaca agtccatcag caccgcctac 240
ctgcagtggg gcagcctgag ggcctcggac accgccatgt attactgtgc gaggtttagc 300
agttctgcct atgacatttg gggccaaggg acaatgggtca ccgtctcttc a 351

<210> 5
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.042 HV

<220>
<221> MISC_FEATURE
<222> (26)..(33)

<223> H-CDR1

<220>

<221> MISC_FEATURE

<222> (51)..(58)

<223> H-CDR2

<220>

<221> MISC_FEATURE

<222> (97)..(106)

<223> H-CDR3

<400> 5

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Asn Phe Asp Thr Tyr
20 25 30

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Arg Gly Leu Glu Trp Met
35 40 45

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

Gln Gly Gln Val Thr Met Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Gly Ser Leu Arg Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Phe Ser Ser Ser Ala Tyr Asp Ile Trp Gly Gln Gly Thr Met
100 105 110

Val Thr Val Ser Ser
115

<210> 6

<211> 351

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <223> XPA.92.042 HV

<400> 6
 gaggtccagc tggtagagtc tggaacagag gtgaaaaagg ccgggggactc tctgaagatt 60
 tcctgtaagg gttctggata caactttgac acgtactgga tcggctgggt gcgccagatg 120
 cccgggagag gcctggagtg gatgggcacc atctatcctg ctgactctga caccagatat 180
 agtccgtcct tccaaggcca ggtcacccatg tcagccgaca agtccatcag caccgcctac 240
 ctgcagtggg gcagcctgag ggccctcggac accgccatgt attactgtgc gaggttcagc 300
 agctctgcct atgacatttg gggccaaggg acaatgggtca ccgtctcttc a 351

<210> 7
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <223> XPA.92.099 HV

<220>
 <221> MISC_FEATURE
 <222> (26)..(33)
 <223> H-CDR1

<220>
 <221> MISC_FEATURE
 <222> (51)..(58)
 <223> H-CDR2

<220>
 <221> MISC_FEATURE
 <222> (97)..(110)
 <223> H-CDR3

<400> 7

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

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

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

Ala Met Ile Ser Phe Asp Gly Gly Asn Gln Tyr Tyr Thr Asp Ser Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 8
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> XPA.92.099 HV

<400> 8
caggtgcagc tgggtggagtc tggggggaggc ttgggtcaagc ctgggagggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcaat agatatgcca tgagctgggt ccgccaggct 120
ccaggcaagg ggctagagtg ggtggcgatg atatcatttg atggaggtaa tcaatattac 180
acagactccg tgagtggccg attcaccatc tccagagaca attccaagac cacgctgttt 240
ctgcaaattg acagcctgag aactgaggac acggctgtgt attattgtgt gagatccccg 300

gcgggggact gggttgccta ctttgactac tggggccagg gaaccctggc caccgtctcc 360
tca 363

<210> 9
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.019 LV (lambda)

<220>
<221> MISC_FEATURE
<222> (26)..(31)
<223> L-CDR1

<220>
<221> MISC_FEATURE
<222> (49)..(51)
<223> L-CDR2

<220>
<221> MISC_FEATURE
<222> (88)..(98)
<223> L-CDR3

<400> 9

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

Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Arg Phe Ala
20 25 30

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

Glu Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Thr Leu Ser Gly Ser
50 55 60

Ser Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Glu Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Asn Thr Gly Gly Leu
85 90 95

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105

<210> 10
<211> 327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> XPA.92.019 LV (lambda)

<400> 10
tcctatgagc tgacacagcc accctcgggtg tcagtatccc caggacaaac ggccaggatc 60
acctgctctg gagatgcatt gccaaaaaga ttgcttatt ggtaccagca gaaggcaggc 120
caggccccctg tactgggtcat ctatgaggac aacaaacgac cctccgggat ccctgagaca 180
ctgtctggct ccagttcagg gacaacggcc accttgacca tcagtggggc ccaggaggag 240
gatgaagctg actactattg ttactccaca gacaacactg gtggtctctg ggtgttcggc 300
ggagggacca agctgaccgt cctaggt 327

<210> 11
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.041 LV (lambda)

<220>
<221> MISC_FEATURE
<222> (26)..(31)
<223> L-CDR1

<220>

<221> MISC_FEATURE
<222> (49)..(51)
<223> L-CDR2

<220>
<221> MISC_FEATURE
<222> (88)..(98)
<223> L-CDR3

<400> 11

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

Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Arg Gln Phe Ala
20 25 30

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

Lys Asp Thr Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser Gly Thr Tyr
85 90 95

His Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly
100 105

<210> 12
<211> 327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> XPA.92.041 LV (lambda)

<400> 12

tcctatgagc tgacacagcc accctcgggtg tcagtgtccc caggacagac ggccaggatc	60
acctgctctg gagatgcgtt gccaaggcaa tttgcttatt ggtaccagca gaagccaggc	120
caggccccctg tgctgggtgat atataaagac actgagaggc cctcagggat ccctgagcga	180
ttctctgggt ccagctcagg gacaacagtc acgttgacca tcagtggagt ccaggcagaa	240
gacgaggctg actattactg tcaatcagca gacagcagtg gtacttatca cgtgtttgga	300
ggaggcaccc agctgaccgt cctaggt	327

<210> 13
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <223> XPA.92.042 LV (lambda)

<220>
 <221> MISC_FEATURE
 <222> (26)..(31)
 <223> L-CDR1

<220>
 <221> MISC_FEATURE
 <222> (49)..(51)
 <223> L-CDR2

<220>
 <221> MISC_FEATURE
 <222> (88)..(97)
 <223> L-CDR3

<400> 13

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

Thr	Ala	Arg	Ile	Thr	Cys	Ser	Gly	Asp	Ala	Leu	Pro	Arg	Lys	Phe	Ala
			20					25					30		

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

Gln Asp Thr Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Asp Val Gln Ala Glu
65 70 75 80

Asp Asp Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Arg Ser Asp Ser Tyr
85 90 95

Val Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly
100 105

<210> 14
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> XPA.92.042 LV (lambda)

<400> 14
tcctatgagc tgacacagcc accctcgggtg tcagtgtccc caggacaaac ggccaggatc 60
acctgctctg gagatgcatt gccaaagaaaa ttgcttact ggtaccagca gaagtcaggc 120
caggcccctg tcctgggtgat atatcaagac actaagaggc cctcagggat ccctgagcga 180
ttctctggct ccagctcagg gacaacagtc acgttgacca tcagtgcgt ccaggcagag 240
gacgacgctg actattattg tcagtcagcc gacagaagtg attcttatgt cttcggagct 300
gggaccaagc tcaccgtcct aggt 324

<210> 15
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE

<223> XPA.92.099 LV (kappa)

<220>

<221> MISC_FEATURE

<222> (27)..(32)

<223> K-CDR1

<220>

<221> MISC_FEATURE

<222> (50)..(52)

<223> K-CDR2

<220>

<221> MISC_FEATURE

<222> (89)..(98)

<223> K-CDR3

<400> 15

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

Asp Arg Val Thr Ile Pro Cys Gln Ala Ser Glu Asp Ile Ser Asn His
20 25 30

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

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

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

Asp Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr His Asp Tyr Pro Ser
85 90 95

Tyr Thr Phe Gly His Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 16

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> XPA.92.099 LV (kappa)

<400> 16

gacatccaga tgacccagtc tccttcctcc ctgtctgctt ctattggaga cagagtcacc 60

atcccctgcc aggcgagtga ggacattagt aatcatttaa gttggtatca gcagaaacca 120

gggaaagccc ctaaaccctt gatcttcgat gcatccgatt tggaaacagg ggtcccatca 180

aggttcagtg gaagtggatc tgggacagat tttgctctca ccatcagcag cctgcggcct 240

gatgattttg caacttatta ctgccaccag tatcatgatt atccctcgta cacttttggc 300

cacgggacca agctggagat caaacgt 327

<210> 17

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> XPA.92.019 HV H-CDR1

<400> 17

Gly Phe Thr Phe Ser Tyr Tyr Gly
1 5

<210> 18

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> XPA.92.019 HV H-CDR2

<400> 18

Ile Ser Asn Asp Gly Ser Asn Lys

1 5

<210> 19
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.019 HV H-CDR3

<400> 19

Ala Thr Pro Tyr Tyr Asp Ser Ser Gly Leu Asp Tyr
1 5 10

<210> 20
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.041 HV H-CDR1

<400> 20

Gly Tyr Asn Phe Asp Thr Tyr Trp
1 5

<210> 21
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.041 HV H-CDR2

<400> 21

Ile Tyr Pro Ala Asp Ser Asp Thr
1 5

<210> 22
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.041 HV H-CDR3

<400> 22

Ala Arg Phe Ser Ser Ser Ala Tyr Asp Ile
1 5 10

<210> 23
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.042 HV H-CDR1

<400> 23

Gly Tyr Asn Phe Asp Thr Tyr Trp
1 5

<210> 24
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.042 HV H-CDR2

<400> 24

Ile Tyr Pro Ala Asp Ser Asp Thr
1 5

<210> 25

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.042 HV H-CDR3

<400> 25

Ser Ser Ala Tyr Asp Ile Ala Arg Phe Ser
1 5 10

<210> 26
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.099 HV H-CDR1

<400> 26

Gly Phe Thr Phe Asn Arg Tyr Ala
1 5

<210> 27
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.099 HV H-CDR2

<400> 27

Ile Ser Phe Asp Gly Gly Asn Gln
1 5

<210> 28
<211> 14
<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> XPA.92.099 HV H-CDR3

<400> 28

Val Arg Ser Pro Ala Gly Asp Trp Val Ala Tyr Phe Asp Tyr
1 5 10

<210> 29

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> XPA.92.019 LV (lambda) L-CDR1

<400> 29

Ala Leu Pro Lys Arg Phe
1 5

<210> 30

<211> 3

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> XPA.92.019 LV (lambda) L-CDR2

<400> 30

Glu Asp Asn
1

<210> 31

<211> 11

<212> PRT

<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.019 LV (lambda) L-CDR3

<400> 31

Tyr Ser Thr Asp Asn Thr Gly Gly Leu Trp Val
1 5 10

<210> 32
<211> 6
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.041 LV (lambda) L-CDR1

<400> 32

Ala Leu Pro Arg Gln Phe
1 5

<210> 33
<211> 3
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.041 LV (lambda) L-CDR2

<400> 33

Lys Asp Thr
1

<210> 34
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<221> MISC_FEATURE
<223> XPA.92.041 LV (lambda) L-CDR3

<400> 34

Asp Ser Ser Gly Thr Tyr His Gln Ser Ala
1 5 10

<210> 35
<211> 6
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.042 LV (lambda) L-CDR1

<400> 35

Ala Leu Pro Arg Lys Phe
1 5

<210> 36
<211> 3
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.042 LV (lambda) L-CDR2

<400> 36

Gln Asp Thr
1

<210> 37
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> XPA.92.042 LV (lambda) L-CDR3

<400> 37

Gln Ser Ala Asp Arg Ser Asp Ser Tyr Val
1 5 10

<210> 38

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> XPA.92.099 LV (kappa) K-CDR1

<400> 38

Glu Asp Ile Ser Asn His
1 5

<210> 39

<211> 3

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> XPA.92.099 LV (kappa) K-CDR2

<400> 39

Asp Ala Ser
1

<210> 40

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> XPA.92.099 LV (kappa) K-CDR3

<400> 40

His	Gln	Tyr	His	Asp	Tyr	Pro	Ser	Tyr	Thr
1			5						10