

FP7471 - Sequence listings_ST25 for filing
SEQUENCE LISTING

- <110> National University of Singapore
- <120> Chimerization and characterization of a monoclonal antibody with potent neutralizing activity across multiple Influenza A H5N1 clades
- <130> FP7471
- <160> 19
- <170> PatentIn version 3.5
- <210> 1
- <211> 113
- <212> PRT
- <213> Artificial sequence
- <220>
- <223> aa VH sequence in xi-IgG-9F4
- <400> 1

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

Ser Cys Lys Ala Ser Gly Phe Thr Leu Thr Thr Phe Thr Ile His Trp
 20 25 30

Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn
 35 40 45

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

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

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

Tyr Asp Tyr Asp Val Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr
 100 105 110

Val

- <210> 2
- <211> 102
- <212> PRT
- <213> Artificial sequence

<220>
<223> aa VL seq in xi-IgG-9F4

<400> 2

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

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Gly Lys Val Thr Ile Thr Cys Thr Ala Arg Gln Asp Ile Asn Lys Tyr
 20 25 30
 Ile Ala Trp Tyr Gln His Lys Pro Gly Lys Gly Pro Arg Leu Leu Ile
 35 40 45
 His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Tyr Ser Phe Thr Ile Ser Asn Leu Glu Pro
 65 70 75 80
 Glu Asp Ile Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Asn Leu Val Thr
 85 90 95
 Phe Gly Gly Gly Thr Lys
 100

<210> 3
 <211> 339
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> nuc VH seq in xi-IgG-9F4

<400> 3
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 tctggcttca ccttgactac cttcacgatc cactgggtaa aacagaggcc tggacagggt 120
 ctggaatgga ttggatacat taatcctcgc agtggatata ctgactacaa tcagaagttc 180
 aaggacaata ccacattgac tgtagacaaa tcctccagca cagcctacat gcaactgagc 240
 agcctgacat ctgaggactc tgcggtcttt tactgtgcaa gatcctacta tgattacgac 300
 gtctttgact actggggcca aggcaccact ctcacagtc 339

<210> 4
 <211> 306
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> nuc VL seq in xi-IgG-9F4

<400> 4
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 atcacttgca cggcaaggca agacattaac aagtatatcg cttggtacca acacaagcct 120
 ggaaaaggct ctaggctgct catacattac acatctacat tgcagccagg catcccatca 180
 aggttcagtg gaagtgggtc tgggacagat tattctttca ccatcagcaa cctggagcct 240
 gaagatattg caacttatta ttgtctacag tatgataatc tggtcacggt cggtgggtggg 300
 accaaa 306

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<210> 5
 <211> 119
 <212> PRT
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<220>
 <223> aa VH sequence in xi-IgA-9F4
 <400> 5

Gln Val Gln Leu Gln Gln Ser Glu Ala Glu Leu Ala Arg Pro Gly Ala
 1 5 10 15
 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Phe Thr Leu Thr Thr Phe
 20 25 30
 Thr Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Asn Pro Arg Ser Gly Tyr Thr Asp Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asp Asn Thr Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Phe Tyr Cys
 85 90 95
 Ala Arg Ser Tyr Tyr Asp Tyr Asp Val Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Thr Leu Thr Val Ser Ser
 115

<210> 6
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> aa VL seq in xi-IgA-9F4
 <400> 6

Asp Val Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15
 Gly Lys Val Thr Ile Thr Cys Thr Ala Arg Gln Asp Ile Asn Lys Tyr
 20 25 30
 Ile Ala Trp Tyr Gln His Lys Pro Gly Lys Gly Pro Arg Leu Leu Ile
 35 40 45
 His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Ile Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Asn Leu Val Thr
85 90 95

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

<210> 7
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> nuc VH seq in xi-IgA-9F4

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tcctgcaagg cttctggctt caccttgact accttcacga tccactgggt aaaacagagg 120
cctggacagg gtctggaatg gattggatac attaatcctc gcagtggata tactgactac 180
aatcagaagt tcaaggacaa taccacattg actgtagaca aatcctccag cacagcctac 240
atgcaactga gcagcctgac atctgaggac tctgcggtct tttactgtgc aagatcctac 300
tatgattacg acgtctttga ctactggggc caaggcacca ctctcacagt ctctca 357

<210> 8
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> nuc VL seq in xi-IgA-9F4

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atcacttgca cggcaaggca agacattaac aagtatatcg cttggtacca acacaagcct 120
ggaaaaggct ctaggctgct catacattac acatctacat tgcagccagg catccccatca 180
aggttcagtg gaagtgggtc tgggacagat tattctttca ccatcagcaa cctggagcct 240
gaagatattg caacttatta ttgtctacag tatgataatc tggtcacggt cggtggtggg 300
accaaactgg agctgaaacg g 321

<210> 9
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> nuc VH primer Forward

<400> 9
tagcccagggt gcaattgcag cagtctgaag ctgaa 35

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<210> 10
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> nuc VH primer Reverse

 <400> 10
 ccgccctctc gagactgtga cagtgtgcc ttg 33

 <210> 11
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> nuc VL primer Forward

 <400> 11
 gatcgaagtg cactccgacg tccagatgac acag 34

 <210> 12
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> nuc VL primer Reverse

 <400> 12
 ccgtttgatc tgcagtttgg tcccaccacc gaa 33

 <210> 13
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> nuc VH primer Forward

 <400> 13
 cggaattcgc aggtccagct gca 23

 <210> 14
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> nuc VH primer Reverse

 <400> 14
 ctagctagct gaggagactg tgaga 25

 <210> 15
 <211> 27
 <212> DNA
 <213> Artificial Sequence

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<223> nuc VL primer Forward

<400> 15
cggaattcag acgtccagat gacacag

27

<210> 16
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> nuc VL primer Reverse

<400> 16
gaacgtacgc cgtttcagct ccagt

25

<210> 17
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Amino acid sequence

<400> 17

Ile Val Lys Lys
1 4

<210> 18
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Amino acid sequence

<400> 18

Leu Val Lys Lys
1 4

<210> 19
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Amino acid sequence

<400> 19

Trp Leu Leu
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<210> 20
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Amino acid sequence

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<400> 20

Glu Trp Ser Tyr Ile Val
1 5

<210> 21

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence

<400> 21

Lys Ile Val Lys Lys Gly Asp Ser Tyr Ile Met
1 5 10