

SEQUENCE LISTING

<110> NATIONAL CHENG KUNG UNIVERSITY
DCB-USA LLC

<120> ANTI-DENGUE VIRUS ANTIBODY, PHARMACEUTICAL COMPOSITION COMPRISING THE SAME,
AND USES THEREOF

<130> P2968-1-PCT

<150> US62509205

<151> 2017-05-22

<160> 18

<170> BiSSAP 1.3

<210> 1

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized-CDRH1

<400> 1

Gly Tyr Ser Ile Thr Ser Asp Tyr Ala Trp Asn
1 5 10

<210> 2

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized-CDRH2

<400> 2

Phe Ile Ser Tyr Ser Gly Ser Ala Arg Tyr Asn Pro Ser Leu Ile Ser
1 5 10 15

<210> 3

<211> 11

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<213> Artificial Sequence

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<223> synthesized-CDRH3

<400> 3

Ala Arg Val Glu Arg Leu Gly Tyr Phe Asp Val
1 5 10

<210> 4

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized-VH chain

<400> 4

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

<210> 5

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized-CDRL1

<400> 5

Lys Ala Ser Gln Ser Val Asp Tyr Asp Gly Asp Ser Tyr Met His
1 5 10 15

<210> 6

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> synthesized-CDRL2

<400> 6

Ala Ala Ser Asn Leu Glu Ser
1 5

<210> 7

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> synthesized-CDRL3

<400> 7

Gln Gln Ser Asn Glu Asp Pro Thr
1 5

<210> 8

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized-VL chain

<400> 8

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

<210> 9

<211> 354

<212> DNA

<213> Artificial Sequence

<220>

<223> synthesized-VH chain

<400> 9

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gatgtgcagc ttcaggagtc gggacctggc ctggtgaaac cttctcagtc tctgtccctc      60
acctgcactg tctactggcta ctcaatcacc agtgattatg cctggaactg gatccggcag      120
tttccaggaa acaagctgga gtggatgggc ttcataagtt acagtggtag cgctaggtag      180
aatccatctc tcataagtcg aacctctatc actcgagaca catccaagaa ccagttcttc      240
ctgcacttga attctgtgac tactgaggac acagccatat attactgtgc gagagtggaa      300
cggctagggt acttcgatgt ctggggcgca gggaccacgg tcaccgtctc ctca          354

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<210> 10
 <211> 333
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthesized-VL chain

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<400> 10
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atctcctgca aggccagcca aagtgttgat tatgatgggtg atagttatat gcactggtag      120
caacagaaac caggacagcc attcaaactc ctcatctatg ctgcatccaa tctagaatct      180
gggatcccag ccaggtttag tggcagtggg tctgggacag tcttcaccct caacatccat      240
cctgtggagg aggaggatgc tgcaacctat tactgtcagc aaagtaatga ggatccgacg      300
ttcgggtggag gcaccaggct ggaaatcaaa cgg                                333

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<210> 11
 <211> 354
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthesized-DENV NS1 antigen

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<400> 11
Ser Gly Cys Val Val Ser Trp Lys Asn Lys Glu Leu Lys Cys Gly Ser
1           5           10          15
Gly Ile Phe Ile Thr Asp Asn Val His Thr Trp Thr Glu Gln Tyr Lys
           20           25           30
Phe Gln Pro Glu Ser Pro Ser Lys Leu Ala Ser Ala Ile Gln Lys Ala
           35           40           45

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His	Glu	Glu	Gly	Ile	Cys	Gly	Ile	Arg	Ser	Val	Thr	Arg	Leu	Glu	Asn
50						55					60				
Leu	Met	Trp	Lys	Gln	Ile	Thr	Pro	Glu	Leu	Asn	His	Ile	Leu	Ser	Glu
65				70						75					80
Asn	Glu	Val	Lys	Leu	Thr	Ile	Met	Thr	Gly	Asp	Ile	Lys	Gly	Ile	Met
			85						90					95	
Gln	Ala	Gly	Lys	Arg	Ser	Leu	Arg	Pro	Gln	Pro	Thr	Glu	Leu	Lys	Tyr
		100						105					110		
Ser	Trp	Lys	Ala	Trp	Gly	Lys	Ala	Lys	Met	Leu	Ser	Thr	Glu	Leu	His
		115					120					125			
Asn	His	Thr	Phe	Leu	Ile	Asp	Gly	Pro	Glu	Thr	Ala	Glu	Cys	Pro	Asn
	130					135					140				
Thr	Asn	Arg	Ala	Trp	Asn	Ser	Leu	Glu	Val	Glu	Asp	Tyr	Gly	Phe	Gly
145				150						155					160
Val	Phe	Thr	Thr	Asn	Ile	Trp	Leu	Lys	Leu	Lys	Glu	Arg	Gln	Asp	Val
			165						170					175	
Phe	Cys	Asp	Ser	Lys	Leu	Met	Ser	Ala	Ala	Ile	Lys	Asp	Asn	Arg	Ala
		180						185					190		
Val	His	Ala	Asp	Met	Gly	Tyr	Trp	Ile	Glu	Ser	Ala	Leu	Asn	Asp	Thr
		195					200					205			
Trp	Lys	Ile	Glu	Lys	Ala	Ser	Phe	Ile	Glu	Val	Lys	Ser	Cys	His	Trp
	210					215					220				
Pro	Lys	Ser	His	Thr	Leu	Trp	Ser	Asn	Gly	Val	Leu	Glu	Ser	Glu	Met
225					230					235					240
Ile	Ile	Pro	Lys	Asn	Phe	Ala	Gly	Pro	Val	Ser	Gln	His	Asn	Tyr	Arg
			245						250					255	
Pro	Gly	Tyr	His	Thr	Gln	Thr	Ala	Gly	Pro	Trp	His	Leu	Gly	Lys	Leu
			260					265					270		
Glu	Met	Asp	Phe	Asp	Phe	Cys	Glu	Gly	Thr	Thr	Val	Val	Val	Thr	Glu
		275					280					285			
Asp	Cys	Gly	Asn	Arg	Gly	Pro	Ser	Leu	Arg	Thr	Thr	Thr	Ala	Ser	Gly
	290					295					300				
Lys	Leu	Ile	Thr	Glu	Trp	Cys	Cys	Arg	Ser	Cys	Thr	Leu	Pro	Pro	Leu
305					310					315					320
Arg	Tyr	Arg	Gly	Glu	Asp	Gly	Cys	Trp	Tyr	Gly	Met	Glu	Ile	Arg	Pro
			325						330					335	
Leu	Lys	Glu	Lys	Glu	Glu	Asn	Leu	Val	Asn	Ser	Leu	Val	Thr	Ala	Gly
			340					345					350		

His Gly

<210> 12

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized

<400> 12

Tyr Lys Asp Trp Ser Glu Trp Gly Lys Ala Cys
1 5 10

<210> 13
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> synthesized-CDRH1

<400> 13
ggctactcaa tcaccagtga ttatgcctgg aac 33

<210> 14
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> synthesized-CDRH2

<400> 14
ttcataagtt acagtggtag cgctaggtac aatccatctc tcataagt 48

<210> 15
<211> 33
<212> DNA
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<220>
<223> synthesized-CDRH3

<400> 15
gcgagagtgg aacggctagg gtacttcgat gtc 33

<210> 16
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized-CDRL1

<400> 16
Ala Ala Gly Gly Cys Cys Ala Gly Cys Cys Ala Ala Ala Gly Thr Gly
1 5 10 15

Thr	Thr	Gly	Ala	Thr	Thr	Ala	Thr	Gly	Ala	Thr	Gly	Gly	Thr	Gly	Ala
			20					25					30		
Thr	Ala	Gly	Thr	Thr	Ala	Thr	Ala	Thr	Gly	Cys	Ala	Cys			
		35					40					45			

<210> 17
 <211> 21
 <212> DNA
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<220>
 <223> synthesized-CDRL2

<400> 17
 gctgcatcca atctagaatc t 21

<210> 18
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthesized-CDRL3

<400> 18
 cagcaaagta atgaggatcc gacg 24