

A DH840.H_UCA QVQLQESGPG LVKPSETLSL TCAVSGYSIS SG.YGWSWIR QPPGKGLEWI 50
DH840.1HK..... .R.....T..N .A..A.G.V. L.....
DH840.2HD...G... GDY.Y.N...
DH840.5H ..H..... .S..N.T. I.S....PL. ...L..... .A..R.....

DH840.H_UCA GYIGGSSGST NYNPSLKSrv TISKDTSKNQ FSLKLSSVTA ADTAVYYCAR 100
DH840.1H MTVYT.T.N. YSD.....R.....V E.....F...
DH840.2H .FL.TYR.TA S.S...R... F.R.....T.....
DH840.5HT.HTAP..... I.....F...T.K...TM....A

DH840.H_UCA ADGYSSGWSY FDYWGQGVlv TVSS 124
DH840.1H ...SD...PH ..N....L..
DH840.2H E..DDYANR.S...
DH840.5H .YY.D..R.. ..G..P....F.

B DH842.H_UCA QVQLQESGPG VVKPSETLSL TCAVSGGSIS SGYYYWSWIR QPPGKGLEWI 50
DH842.H QV..... LMQ.A..... RD..GA.G.F. .V.....

DH842.H_UCA GGIYSNSEST NYNPSLKSrv TISKDTSKNQ FSLKLSSVTA ADTAVYYCAR 100
DH842.H VT..TSTGNi YDESP..... .R.....T...PF...

DH842.H_UCA EGCSSTYCSA GWFDVWGPgv LTVSS 126
DH842.H ...NTVF...L

C DH845.H_UCA QVQLQESGPG VVKPSETLSL TCAVSGGSIS SGYYYWSWIR QPPGKGLEWI 50
DH845.1H .V..... L.....M. .V.QG.G...
DH845.2H .L..... L.....N .A.HG.G...
DH845.3H .L..... L.....M. .V.QG.G...
DH845.4H .V..... L.....L. .V.QG.G...

DH845.H_UCA GGIYSNSEST NYNPSLKSrv TISKDTSKNQ FSLKLSSVTA ADTAVYYCAR 100
DH845.1H ATT.TSTGNi Y.....G.G .V.R.....A...
DH845.2H VSS.TSTGN. Y.D..... .R.....
DH845.3H ATT.TSTGN. Y.D..... .V.R.....A...
DH845.4H ATT.TSTGNi Y.....G .V.R..... .R.A...

DH845.H_UCA VNLDGDSGYYT GVSEYFEFWG QGALTVSS 129
DH845.1H L.....D..D...
DH845.2H .G...DA.N.
DH845.3HD..D...
DH845.4HD..D...

D DH846.H_UCA QVQLQESGPG LVKPSETLSL TCAVSGGSIS DYYYWNWIRQ PPGKGLEWIG 50
DH846.1H .L.....D...V... SN.G.G...D..V
DH846.2HS... VN.G.G...V

DH846.H_UCA NIYGNsASTY YNPSLKSrvT ISKDTSKNQF FLKLSSVTA DTAVYYCARK 100
DH846.1H T...GTGN.. .A...EG..AA..... S.R.N.....
DH846.2H T...GTGN.. .D.....A.T... S.....

DH846.H_UCA ITYSSGWYYF DYWGQGVlvt VSS 123
DH846.1HA ...
DH846.2H

S8 Fig. Amino acid alignments of heavy chain variable regions for each CON-S autologous neutralizing antibody clonal lineage. Amino acids for (A) DH840, (B) DH842, (C) DH845, and (D) DH846 lineages are shown. Periods indicate the presence of identical amino acids at that position. UCAs were inferred with Cloanalyst using the 2017 macaque reference library.