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SARS-CoV-2 RVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSA-SFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIADYNYKLPDDFTGCVI

Node65_4_0.1 .....T.....NTL.....S.....V.....R.....

Node209_1_0.2 ..K.SQ.VA.Y.....PQ.....K.P.....M.E...Y.I....I....TL.....R.....S.....M.VK.....R...S...V.....S...L

Node209_3_0.3 ..A..Q.VA.Y.....I...SQ.....N.P.....T.E.....I...TI...LTA...N.R.....SA.....M.VR.E.....S...V.....R.....IV

Node209_1_0.5 .SA.SLTVA.Y.....NQI...N..P.....T.Q.....L...NIF...QS.....R.....SR.....L.V.....KT.....V.....N..N...L

Node209_2_1 ..V.GKQVA.T.....A...TS....VN.TP....T.EI..T.S...AII..TTV.....R.....D....SQ.....IAV.V...N....SE..V.VN....Q.....

Node66_3_1 .SK.M..TLK.....G.....IS..T....S.QK..S.....T.I..GTENL...R.....S.....SK.....L.V.S.K.S.....K..H.....E.....Q..I.

Node208_1_0.2 ..A.SVEV..I.....Q.....S.P.....E.D..SD.....F..GTP.Y.....SS.....V.E.....R..V.....L

Node208_2_0.2 ..S..NEV..I....K.....S.P.....D....S.....TE.....R.....H....S.....F..V.....I.....L

Node208_2_0.5 ..N..FGVLSS.....V...D.....NQ.P.....E.T..YS.....TN.....R.....SD....A.AA..E..KR.....I.....A.....S

SARS-CoV-1 ..V.SGDV.....K.P.....E..K.....T-F.....A.....S.....VK..D.....V.....M...L

Node71_2_t0.1 .IS..KE.....P.....T.....R.....G.KS.....

Node70_3_0.3 .QP.TSEM.....MD.....L.....NI.....SS.....S.....M.....AR..E...M.....N...V

Node70_4_0.5 ..S.AKG.....SD....SS..T.....IQ..D.....N.ES....N.....P.....T.....R..E.I.T.....L.....V.N...V

Node102_4_1 ....IWTAF.IL.V.TR....KI...AV..G....D.T..GT..T..A....R.VA....E.....PS..I....TY....T.LVRFSA.K.T...D.....E..A....

Node219_4_1 .A..WTPI..T....S.....RI...NT.QI.....MR....M...NIV..ASEV.H..R.....PS.....S....YI..RIED.....D..M.....S...P

Conserved aa * * *:* *** :*** * **** * * * :** :.** .*.*****.:** **** **** : : . * : **. ** *.:***. *: * **:

SARS-CoV-2 AWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPCNGVEGFNCYFPLQSYGFQPTN-GVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVNF **-10,386**

Node65_4_0.1 ....DE..T.....S.....A.....K....L...T.A.H...Y...R.....N..... 12/17 1,226

Node209_1_0.2 ...IGAA.DSGSH.WQ.F.....D.K.L..Q....NVR.GF.KSNGCKPPSSD..WI.TK...ASGVLSQD...F.....N.....R..E..Y.R.... 6/17 -10,775

Node209_3_0.3 ...ARSK.ENE.S.GK.F...Q...K.L..Q..V.NVA.GT.KRDYC.PPEAD..W..TN...SVSVRSQDF.....N.....R..V..YRA.... 5/17 -9,267

Node209_1_0.5 ....QAK.ANG.H.WV.F..Q..N.R.S..Q..V.NVM.G.KKDDGCNPNHKD..W...K.R.KRSAFSQK...S.....N.....R..D..Y.N.... 7/17 -7,154

Node209_2_1 ....RID.NHDT..DKFI...I.LGA.T.VI..LINYK.G..GNDGCVPKENG..GL.IR.S.RVDRDSHIS.P.....N.....S.....L.Q.... 4/17 -3,406

Node66_3_1 ...NETV.VSWVE.RE.I...M.....RS....M.R.EFSQSGIFCQSI..WS..A.....K.RQL.M...F.SH.....G.....E..R....N.... 6/17 14,649

Node208_1_0.2 ...TRK..ARQ....S.Y.....HGK.....NVW.SP.EK..S...E....Q..AN...APR.I.I.....N.....Q..I..... 12/17 -13,77

Node208_2_0.2 ...TKK..GRME...G.Y.....RGK.T.....NIT.STEGWS.SSSGN.I..WS.SL...TG.TK.IS.....N.....Q..E..... 10/17 -10,453

Node208_2_0.5 ...AST..EREY..LG.Y..IT..RK.....NIL.GV.DSH.DQTSRY.L.W..AG...TGIRG.I.....D.....H..G...DR.... 6/17 -5,956

SARS-CoV-1 ...TR.I.ATST.....K..YL.HGK.R.....NVPFSPDGK..T-PPAL...W..ND...YT.T-.I.....N.....L..D.I..Q....

Node71_2_t0.1 .....L....S..FD....SV.Q.....M.....N...V...F.....E.N.I..... 9/14 -11,669

Node70_3_0.3 ....KH..TSKR..FT.Y..S..YS.IG.K.....I.YL.G.QQ.VTQKKQ.....SS.V.FP.SV.....Y..N.V.S..... 7/14 -4,701

Node70_4_0.5 .....V.NGK....Y.Q..S..T.....Y....T.MGSNVGDF..RKTE.V....S.F.....SIMF.Y.F..N.....T..... 8/14 -12,823

Node102_4_1 ....NPV.SDYRP.GS.N..NM.GA..K.YA..Q.S.RS.QG.DS.GTRNPT.GVRT..Q.A.LVLVYPITF.AA.....T.....Q..... 4/14 10,986

Node219_4_1 ...SHY..SYHIS.TRFL..MF.F...D.MN..T...LYY.IESE.FTVLGNK..ML.KG...VSPPH.GRW..C.....G...T.....R..K.V..K.... 4/14 -8,862

Conserved aa *** * * : ** * : . ** * * * *. ******* ** :******** ** *: ****

Conserved contact residues

Binding energy [kcal/mol]