

A

ZBCoV SSGRRSAIEDLLFNKVVVTADVGFMKK-YEECTGG---SVFKDLDCAQSFNGLKVLPPQMSDAHVGVYTTAAAMG

BtSARS-CoV HKU3 KPTKRFSFIEDLLFNKVTLADAGFMKQ-YGDCCLGD---VSARDLICAQKFNGLTVLPPLLTDEMVAAYTAALVSG

BtSARS-CoV Rf1/2004 KPTKRFSFIEDLLYNKVTLADAGFMKQ-YADCLGG---INARDLICAQKFNGLTVLPPLLTDDMIAAYTAALISG

SARS-CoV KPTKRFSFIEDLLFNKVTLADAGFMKQ-YGECCLGD---INARDLICAQKFNGLTVLPPLLTDDMIAAYTAALVSG

CtSARS-CoV KPTKRFSFIEDLLFNKVTLADAGFMKQ-YGECCLGD---INARDLICAQKFNGLTVLPPLLTDDMIAAYTAALVSG

PRCV KRQYRSAIEDLLFSKVVTSGLGTVDEYKRCCTGGY---DIADLVCAQYYNGIMVLPGVANADKMTMYTASLAGG

HCoV-229E RVAGRSAIEDILFSLVTSGLGTVDADYKCKTKGL---SIADLCAQYYNGIMVLPGVADAERMAMYTGSLIGG

BCoV KVSSRSAIEDLLFSKVKLSDVGFVEA-YNNCTGGAE---IRDLICVQSYNGIKVLPPLLSENQISGYTLAATSA

BtCoV-HKU4 SSSYRSAIEDLLFDKVTIADPGYMQ-YDDCMKQGPQ-SARDLICAQYVSGYKVLPLYDPNMEAYTSSLLGS

BtCoV-HKU9 ATTYRSFSDLLYDKVTRITDPGFMQS-YQKCIDSQWGGSI RDLLCTQTYNGIAVLPPIVSPAMQALYTSSLVGA

IBV SRRKRSLIEDLLFTSVESVGLPTNDA-YKNCTAGPLFFK--DLACAREYNGLLVLPPIITAEMQALYTSSLVAS

SW1 PRDARSTIEDILFDKVTTVGLGTVDADYDKCTKGLSV---ADLVCAQYYNGIMVLPGVADA EK MAMYTGALVGG

BuCoV-HKU11 KAGGRSAIEDLLFNKVVVTNGLGTVDQDYKCSKDLA---IADLVCTQYYNGIMVLPGVVDAQMAMYTASLTGA

B

ZBCoV	YEKWPWYIWL GFIAGLVVAIALVLVLI-- CCSTSCCSCFKGMCCKK-CCD
BtSARS-CoV HKU3	YIKWPWYVWL GFIAGLIAIVMTILL-- CCMTSCCCLKGACSCGS-CCK
BtSARS-CoV Rf1/2004	YIKWPWYVWL GFIAGLVGLFMAIILL-- CYFTSCCSCCKGMCSGS-CCR
SARS-CoV	YIKWPWYVWL GFIAGLIAIVMTILL-- CCMTSCCCLKGACSCGS-CCK
CtSARS-CoV	YIKWPWYVWL GFIAGLIAIVMTILL-- CCMTSCCCLKGACSCGS-CCK
PRCV	YVKWPWYVWL --LIGLVVIFCIPLLLF CCSTGCCG C-IG-CL-GS- CCH
HCoV-229E	YIKWPWVWL CISVVLIFVVSMLLLC-- CCSTGCCGFFSCFASSIRGCC E
BCoV	YVKWPWYVWL LIGFAGVAMLVLLFFI-- CCCTGCCGTSC--FKKCG-GCCD
BtCoV-HKU4	YNKWPWYVWL GFIAGLVALLLCVFFL-- LCCTGCCGTSC CLGKMK CKN-CCD
BtCoV-HKU9	TIKWPWYVWL AMIAGIVGLVLAVIML-- MCMTNCCSCFKGMCDCRR-CCG
IBV	YIKWPWYVWL AIAFATIIIFILILGWV-- FFMTGCCGC-----CCG
SW1	YSKWPWVWL IIIVLCFAAFCLLVFWI-- FICTGCCGCCN-----CCG
BuCoV-HKU11	YLKWPWYIWL AIFLAIAAFACIIVTI-- FLCTGCCGCF-----GCCG

***** **