

ORF 6

ZBCoV UGUCCACUGAAGUUACUGUUGCUACAGCUCGCACUCUCUCCUACUACAAGCUCAGUUGGAGGAAAGAGGCGGGU--GCAGGAA**AU--G**

Bt SARS-CoV HKU-3 UGCCAAAAGAGAUUACGGUGGCUACAUCACGAACGCUUUCUUAUUACAA----AUUAGGAGCGUCGCAGCGUGUAGGCACUGAUUCAG

SARS-CoV UGCCAAAAGAGAUACUGUGGCUACAUCACGAACGCUUUCUUAUUACAA----AUUAGGAGCGUCGCAGCGUGUAGGCACUGAUUCAG

ZBCoV GUGUCGCUCUGUAUGCGCGCUACAAGGUUGGAAACCAU----CGUGUGCCCAACUCGCGCUCAUCA--GACGAUAAUGAU-----

Bt SARS-CoV HKU-3 GUUUUGCUGCAUACAACCGCUACCGAAUUGGAAACUACAAACUAAAUACAGACCAUUCAGGUAGCAACGACAAUAUUGCUUUGCUAGU

SARS-CoV GUUUUGCUGCAUACAACCGCUACCGUAUUGGAAACUAAAAUAAAUACAGACCAGCCGGUAGCAACGACAAUAUUGCUUUGCUAGU

M

ORF 7

ZBCoV -----GAUG-UUCUGCUACUUG-----UAUCG**UA--AGAG**-----AUCACGAA-----CAGA**AAU**

Bt SARS-CoV HKU-3 ACAG**UAA**GUGACAACAG**AUG**UUUCAUCUAGUUGACUCCAGGUUACAAUAGCAGAGAUUUGAUUAUCAUUAUGAAAACUUUCAGGGU

SARS-CoV ACAG**UAA**GUGACAACAG**AUG**UUUCAUCUUGUUGACUCCAGGUUACAAUAGCAGAGAUUUGAUUAUCAUUAUGAGGACUUUCAGGAU

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ORF 6

ZBCoV **GG--**AUUU-UAAC----AAAUUAUACACAAUUC**UA-AGUG**-----UUGUUU-----UAACUUA-UUGCAUGUUUCUGACUAAUGU

Bt SARS-CoV HKU-3 UGCCAUUUGGAACCUUGACAUAUAUAAGUCAAUAGUGAGACAAUUAUUUAAGCCUCUAACUAAGAAGAAUUAUUCAGAGUUAGAU

SARS-CoV UGCUAUUUGGAACCUUGACGUUAUAUAAGUCAAUAGUGAGACAAUUAUUUAAGCCUCUAACUAAGAAGAAUUAUUCGGAGUUAGAU

ZBCoV -AUUAAUAACC---GUAGUCAGAAGUU---UAAUUC-----AUUA--CUGUUCUCUGAUAU--AUAGUUUUAGAAA----ACA
 Bt SARS-CoV HKU-3 GAUGAAGAACCUAUGGAGUUAGAUUAUCCA **UAA**AACGAAC **AUG**AAAAUUAUUCUCUUCU-UGACAUUGAUAGCGCUUGCAACUUGUGA
 SARS-CoV GAUGAAGAACCUAUGGAGUUAGAUUAUCCA **UAA**AACGAAC **AUG**AAAAUUAUUCUCUUC-CUGACAUUGAUUGAUUUACAUCUUGCGA
 6 7a

ORF 8

ZBCoV AUUCUA-CACGAACAACA-----AGAACA **AUG**CCUGU-----GAUGGGCG--GACGCUCAGG-----ACGCGG-----ACC-
 Bt SARS-CoV HKU-3 GUUAUAUCAUUUUCAGGAGUGUGUUAGGGGUACGACUGUACUACUAAAAGAACCUUGCCCAUCAGGAACAUUGAGGGCAAUUCACCA
 SARS-CoV GCUAUAUCACUUCAGGAGUGUGUUAGAGGUACGACUGUACUACUAAAAGAACCUUGCCCAUCAGGAACAUUCAGGGCAAUUCACCA

ORF 7

ZBCoV UUCAUCUUGUUGCUU-----CUGAUCCUAGCAU---CCCUGACCUACCU-GU-~~CUA~~UUGGUGCAUCACAC-CAU
 Bt SARS-CoV HKU-3 UUUCACCCUCUUGCUGAUAAUAAUUUGCACUAACUUGCUCUAGCACACAUUUUGCUUUUGCUUGUGCUGACGGUACUAGACACACCU
 SARS-CoV UUUCACCCUCUUGCUGACAAUAAUUUGCACUAACUUGCACUAGCACACACUUUGCUUUUGCUUGUGCUGACGGUACUCGACAUACCU

ZBCoV AACAG-----AGAUAA----UGCCGAGCAUAUGGACCCG-----GUCGAUCAAAGACUUUUGAGACCA-UUGUCGUCA
 Bt SARS-CoV HKU3 AUCAGCUUCGUGCAAGAUCAGUUUACCAAACUUUUCUUCAGACAAGAGGAAGUUUAUCAAGAG-CUCUACUCACCACUUUUCUCA
 SARS-CoV AUCAGCUGCGUGCAAGAUCAGUUUACCAAACUUUUCUUCAGACAAGAGGAGGUUCAACAAGAG-CUCUACUCGCCACUUUUCUCA

ZBCoV UUAUCCUUG--UUACUGUCU----UAAUUUUCAGCACUAUU-----GUAAAUG----CACUCUUAU-----GUCG
 Bt SARS-CoV HKU3 UUGUUGCUGCAUUAGUAUUUAUAUACUUUGCUUCACCAUUAAGAGAAAGACAGAAAUGAAUGAGCUCACUUAAUUGACUUCUAUUUG
 SARS-CoV UUGUUGCUGCUCUAGUAUUUUUAUACUUUGCUUCACCAUUAAGAGAAAGACAGAAAUGAAUGAGCUCACUUAAUUGACUUCUAUUUG

7b/7a

ZBCoV CGCUGUGUUGC--UUAUGG---UUCUUGUCUUGA--ACGCU-----GAUGCUG-----CAC-----CCAC-AUAUAGAGUGACACG
 Bt SARS-CoV HKU3 UGCUUUUUAGCCUUUCUGCUAUUCCUUGUUUUAAUUAUGCUUCUUAUAAUUUUGGUUCUCGCUUGAGAUUCAGGACAUAGA-AGAACCU
 SARS-CoV UGCUUUUUAGCCUUUCUGCUAUUCCUUGUUUUAAUUAUGCUUUAUUAUUUUGGUUUUCACUCGAAAUCCAGGAUCUAGA-AGAACCU

ZBCoV UUUACCAA---CUGAA-GUGC-UGAA--UACUGAUUGUGUCUCCAACACUAUCCCGUGCUUGGAUGCUUUUACAGUCAUUGGUUUUUG
 Bt SARS-CoV HKU3 UGUAAACAAAGUCUAAACGAACAUGAAACUUCUCAUUGUUUUGGACUCUAGCAUCA-GUGUACUGCUUCCACAGAGAAUGCAGCAUA

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SARS-CoV UGUACCAAAGUCUAAACGAACAUGAAACUUCUCAUUGUUUU--GACUUGUAU-UUCU-CUAUGCAG-UUGCAUAUGCACUGUAG--UA

7b

8a

ZBCoV CAUUACUGGCC-----CUACACCUC---UGACU-AAUA-CUAUG-----CGUUACGAUGUGG-----
 Bt SARS-CoV HKU3 CAAGAGUGUUGUGAAAAUCAACCCUACCAAUUGAAGACCCAUGUCCAUAUACAUUACUAUUCGGACUGGUUUUAUAAAAUUGGAUCUA
 SARS-CoV CAGCGCUGUGCAUCUAAUAAACCUCAUGUGCUUGAAGAUCUUG-----UAA-----GGUACA

8b

ZBCoV -ACCAUUGGGUUG-UUGUUA-AGCAACUC----CAUUUCCCUGAGUGGCAAGUCCCACCCUCCAUCGUAAA---GACACCACAAAUGA
 Bt SARS-CoV HKU3 GAAAAUCGGCUCGCCUCGUACAAUUGUGCGAAGGUGAUUACGGACGAAGAAUCCAAUUCAUUAUGAGAUGUUUGGCA--AUUACACU
 SARS-CoV -ACACUAGGGGUAAUACUUUAUAGCACUGCUUGGCUUUGUGCUCUAGGAAAGGUUUUACC--UUUUCAUAGA--UGGCA-CACUAUGGU

8a

ZBCoV -CCUCAGGUG----CCGAAAGUU-CCACCAACUUUUGGAUGCAUUUGGUAUG-AAGCAUUGCUC--UGUUCGUCGGGCGCUGCGC
 Bt SARS-CoV HKU3 AUCUC--CUGUGAACCACUAGAG--AUAAAUUGUCAGGCUCCACCAGUAGGUAGUCUAAUCGUUCGUUGUUCAUACGAUUAUGACU
 SARS-CoV -UCAACAUGCACACCUAAUGUUACUAUCAACUGUCAAGAUCAGCUGGUGGUGCGCUUAUAGCUAGGUGUUGGUACCUUCAUGAAG

N

ZBCoV UCGAAGAAAUUG-----UCAAGAACUAAAA-----CAAUU-UAAACGAAC---UUUAUC---CUCAAGAUG---CGAGCCA
 Bt SARS-CoV HKU3 UUGUUGAGCAUCAUGACGUUCGUG---UUGUUCUAGAUUUCAUC--UAAACGAACAAACUAAAAUGUCUGAUAAUGGACCCCA---A
 SARS-CoV GUCACCAAACUGCUGCAUUUAGAGACGUACUUGUUGUUUUAAA---UAAACGAACAAAUUAAAUGUCUGAUAAUGGACCCCAAUCA

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ORF 8

ZBCoV A--CAAGGCAAU-----CGCA-UACGCUUUGAGGAC---CAGAGUU
 Bt SARS-CoV HKU3 AGUCAACGUAGUGCCCCCGCAUUACAUUUGGUGGACCCGCAGA-UU
 SARS-CoV AACCAACGUAGUGCCCCCGCAUUACAUUUGGUGGACCCACAGA-UU