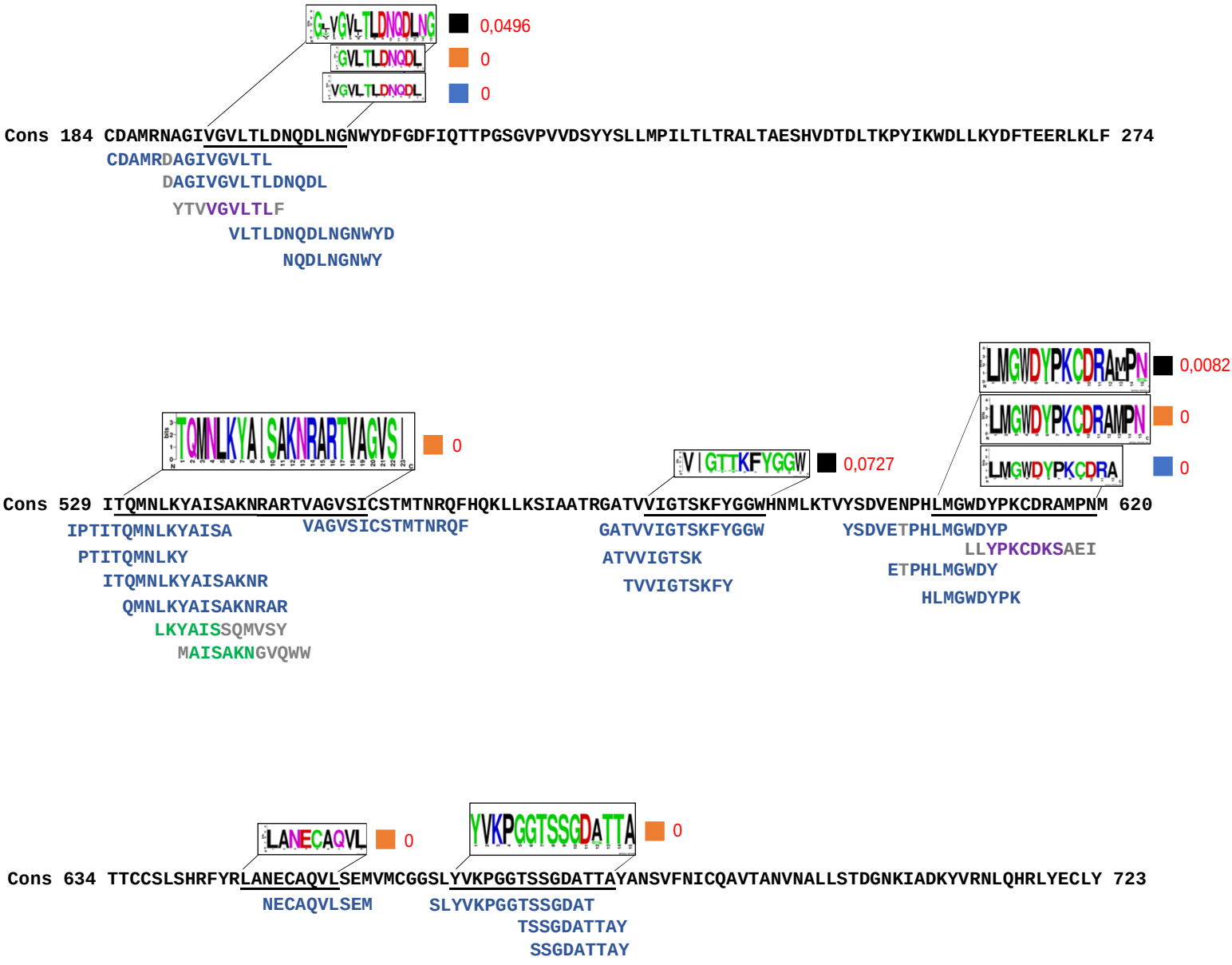
ORF1ab



Color map

- Unknown
- SARS-CoV
- Human
- Other Coronavirus
- Amino acid mismatch
- Consensus conserved region

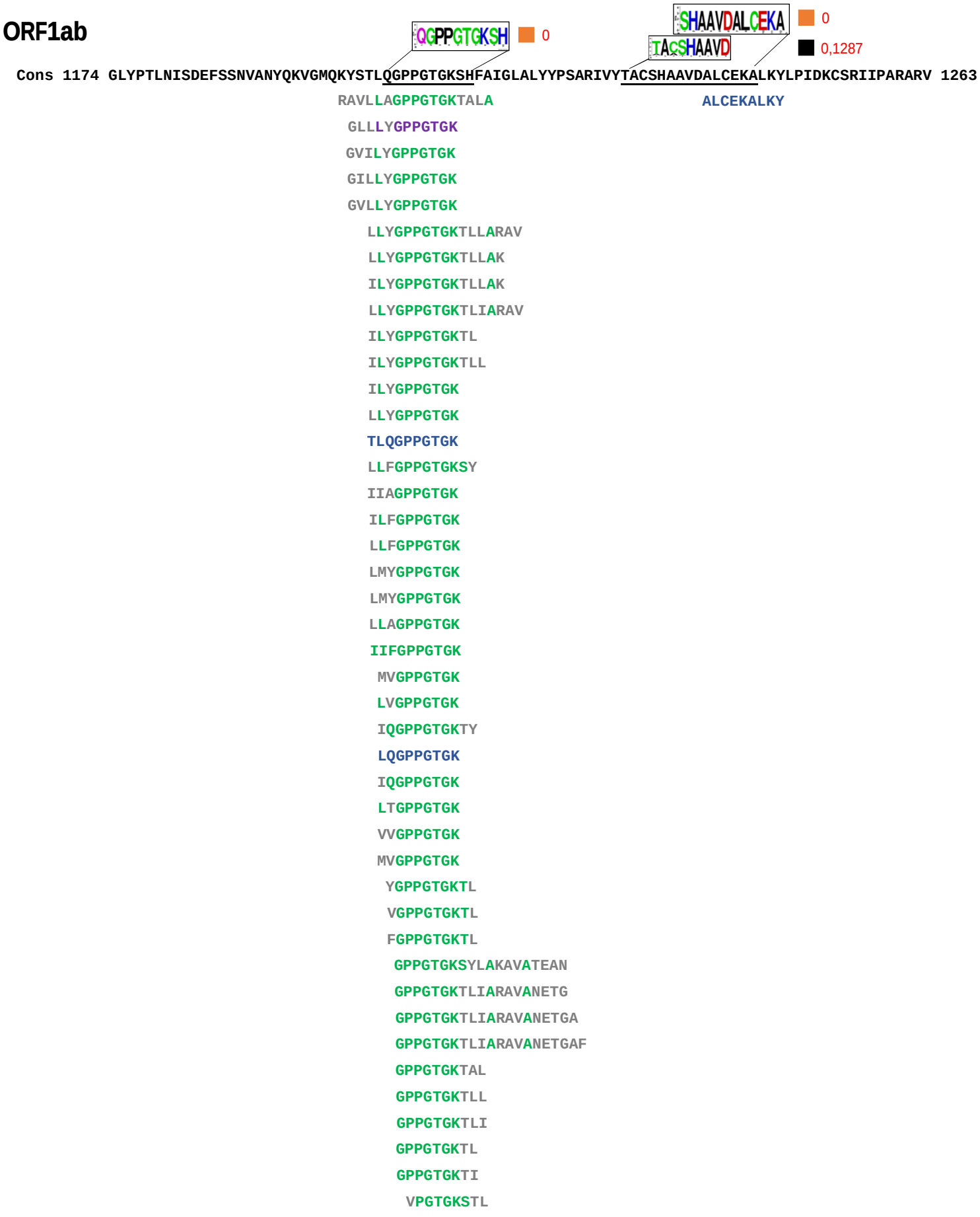
Symbols

- Pan-coronavirus conservation
- Betacoronavirus conservation
- Human coronavirus conservation

Average entropy

ORF1ab

0,0834
0
0,0916
0
0
0
Cons 724 RNRDVDTDFVNEFYAYLRKHFSMMILSDDAVVCFNSTYASQGLVASIKNFKSVLYYQNNVFMSEAKCWTETDLTKGPHEFCSQHTMLVKQG 814
YAYLRKHFSMMILSD
ILSDDAVVCY
LSDDGVDL
PHEFCSQHTMLVKQG
EFCSQHTML
0,0591
0
0
0,0364
Cons 814 GDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHPNQEYADVFHLYLQYIRKLHDELTGHMLDMYSVMLTNDNT 903
LPYPDPSRIL
LPYPDPSRI
LPYPDPAIAQF
AAYPDPSKQK
FPYPDPSQW
GTLMIERFVSLAIDA
LMIERFVSL
FVSLAIDAY
SLAIDAYPLTKHPNQ
SLAIDAYPL
AIDAYPLTK
0
0
Cons 904 SRYWEPEFYEAMYTPHTVLQAVGACVLCNSQTSLRCGACIRRPFLCCKCCYDHVISTSHKLVLSVNPYVCNAPGCDVTDVTQLYLGGMSYY 994
VLCNSQTSLR
VTDVTQLYLGGMSYY
TQLYLGGMSY
QLYLGGMSYY
0
Cons 994 YCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYILANTCTERLKLFAAETLKATEETFKLSYGIATVREVLSD 1083
RLKLFAAETLKATEE
LKLFAAETLKATEET
KLFAAETLK
TERLKLFAA
Color map
Unknown
SARS-CoV
Human
Other Coronavirus
Amino acid mismatch
Consensus conserved region
Symbols
Pan-coronavirus conservation
Betacoronavirus conservation
Human coronavirus conservation
Average entropy


ORF1ab
QGPPGTGKSH
0
SHAAVDALCEKA
TACSHAAVD
0
0,1287
Cons 1174 GLYPTLNISDEFSSNVANYQKVGMQKYSTLQGPPGTGKSHFAIGLALYYPSARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARV 1263
RAVLLAGPPGTGKTALA
ALCEKALKY
GLLLYGPPGTGK
GVILYGPPGTGK
GILLYGPPGTGK
GVLLYGPPGTGK
LLYGPPGTGKTLLARAV
LLYGPPGTGKTLLAK
ILYGPPGTGKTLLAK
LLYGPPGTGKTLIARAV
ILYGPPGTGKTL
ILYGPPGTGKTLL
ILYGPPGTGK
LLYGPPGTGK
TLQGPPGTGK
LLFGPPGTGKSY
IIAGPPGTGK
ILFGPPGTGK
LLFGPPGTGK
LMYGPPGTGK
LMYGPPGTGK
LLAGPPGTGK
IIFGPPGTGK
MVGPPGTGK
LVGPPGTGK
IQGPPGTGKTY
LQGPPGTGK
IQGPPGTGK
LTGPPGTGK
VVGPPGTGK
MVGPPGTGK
YGPPGTGKTL
VGPPGTGKTL
FGPPGTGKTL
GPPGTGKSYLAKAVATEAN
GPPGTGKTLIARAVANETG
GPPGTGKTLIARAVANETGA
GPPGTGKTLIARAVANETGAF
GPPGTGKTAL
GPPGTGKTLL
GPPGTGKTLI
GPPGTGKTL
GPPGTGKTI
VPGTGKSTL

ORF1ab

Color map
- Unknown
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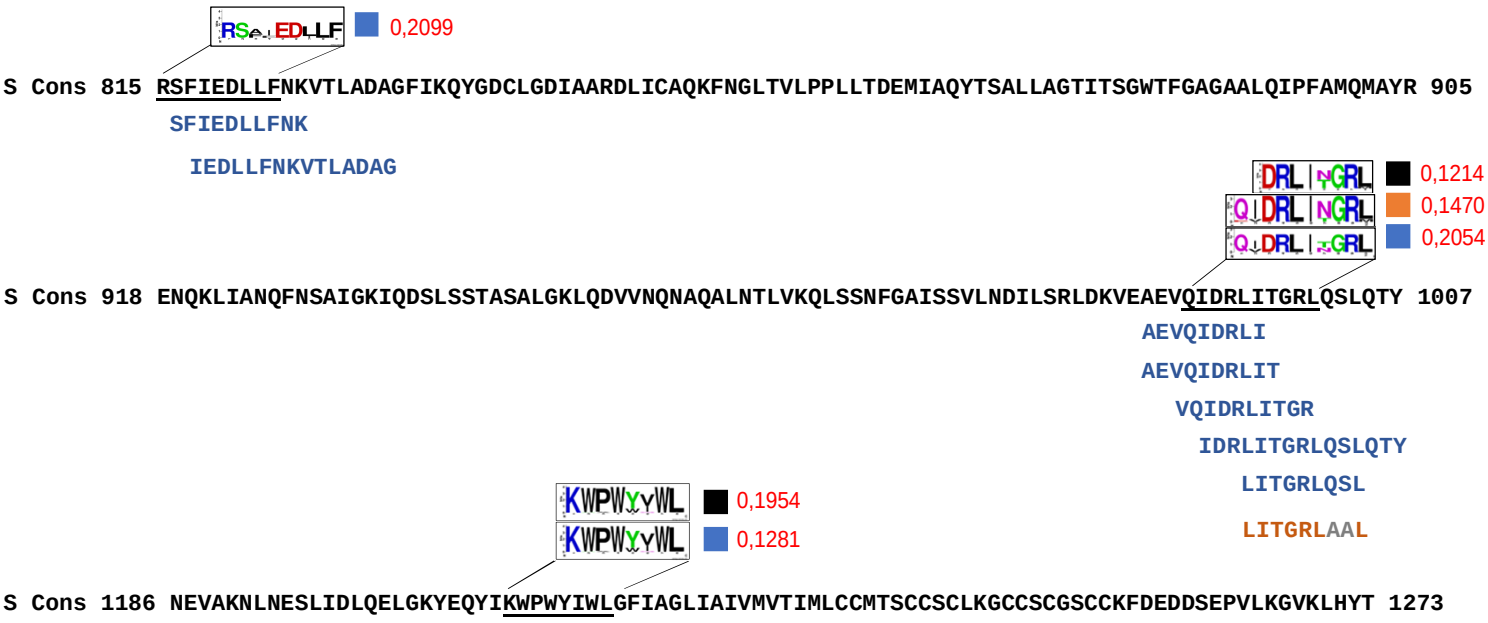
- Human
- Other Coronavirus
- Amino acid mismatch
- Consensus conserved region

Symbols
- Pan-coronavirus conservation
- Betacoronavirus conservation
- Human coronavirus conservation

Average entropy

Spike



Color map

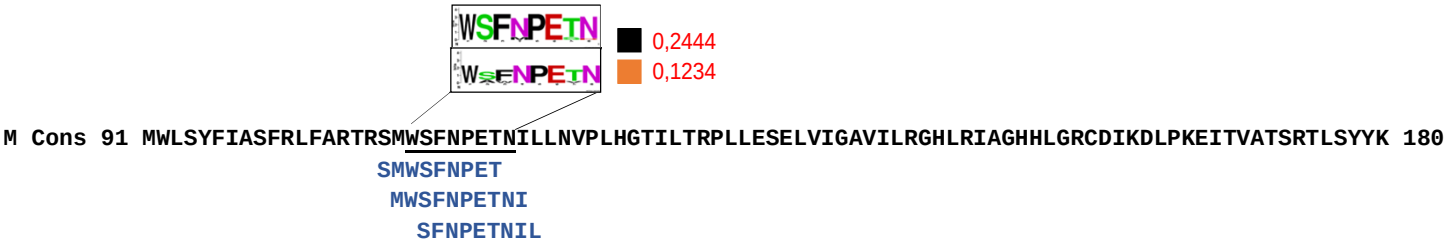
- Unknown
- SARS-CoV
- Human
- Other Coronavirus
- Amino acid mismatch
- Consensus conserved region

Symbols

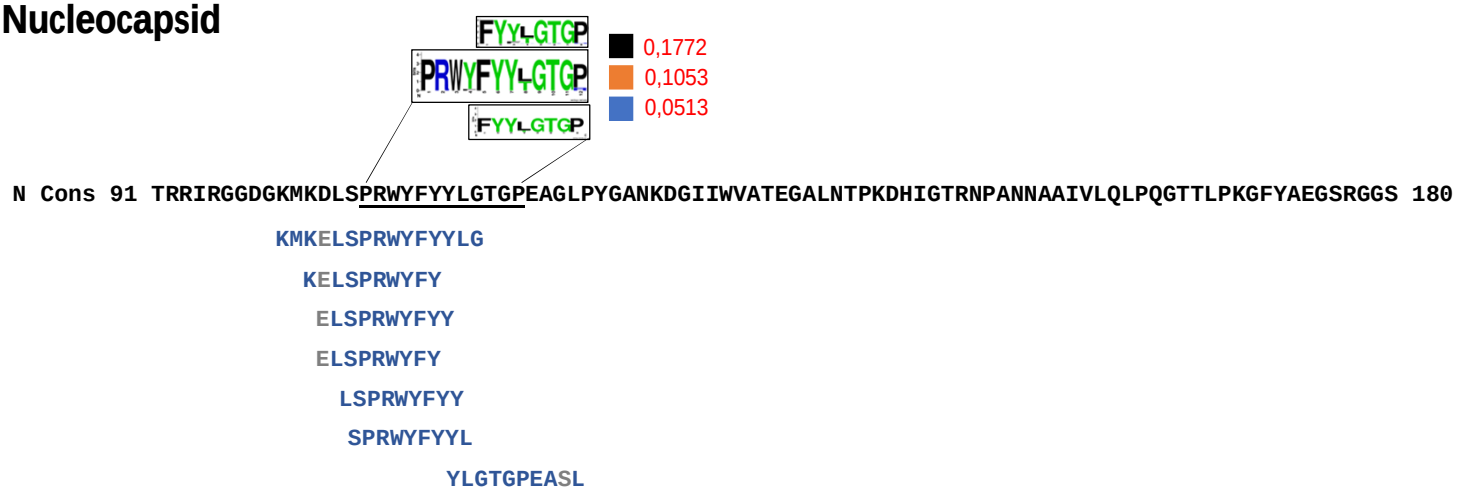
- Pan-coronavirus conservation
- Betacoronavirus conservation
- Human coronavirus conservation

Average entropy

Membrane



Nucleocapsid



Color map
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- Other Coronavirus
- Amino acid mismatch
- Consensus conserved region

Symbols
- Pan-coronavirus conservation
- Betacoronavirus conservation
- Human coronavirus conservation

Average entropy

Supplementary Figure S2. SARS-CoV-2 ORF fragments containing conserved regions in Human, Betacoronavirus or Pan-coronavirus alignments are shown. Epitope description was carried out based on experimentally described epitopes from the Immune Epitope Database (IEDB, www.iedb.org). Species were the epitope was described are indicated by sequence color. Logos of conserved sequences along the three alignments (Pan-coronavirus, Betacoronavirus or Human coronavirus) were included. The alignment were the conserved regions were identified is indicated by color squares