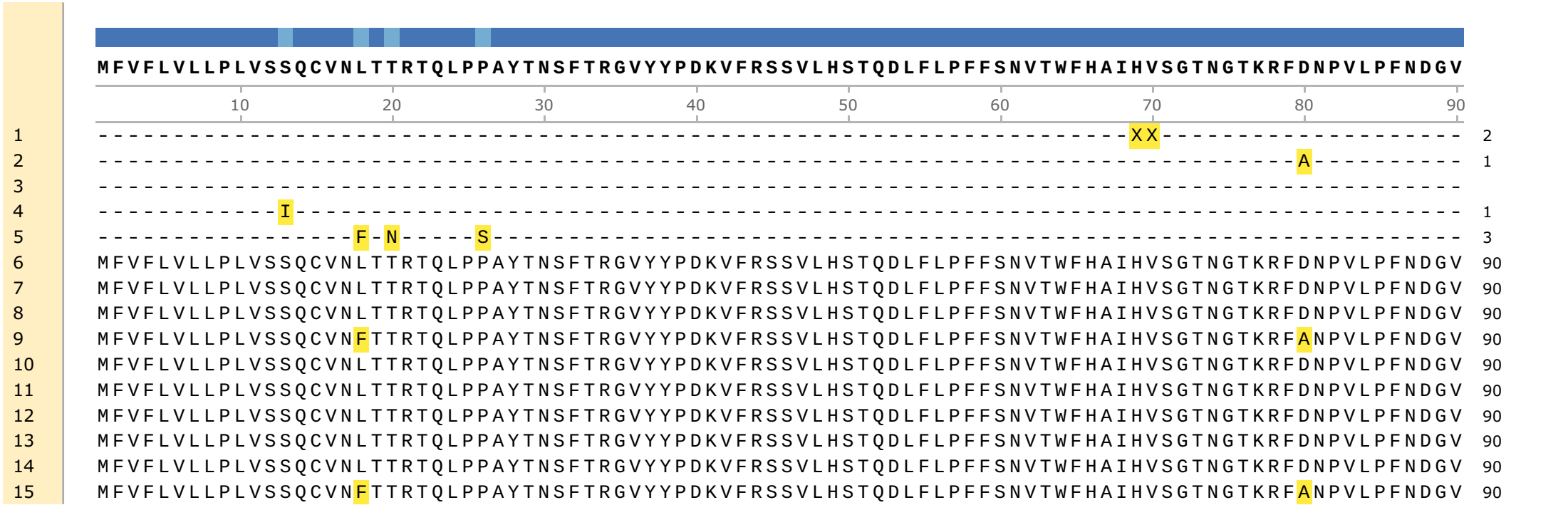


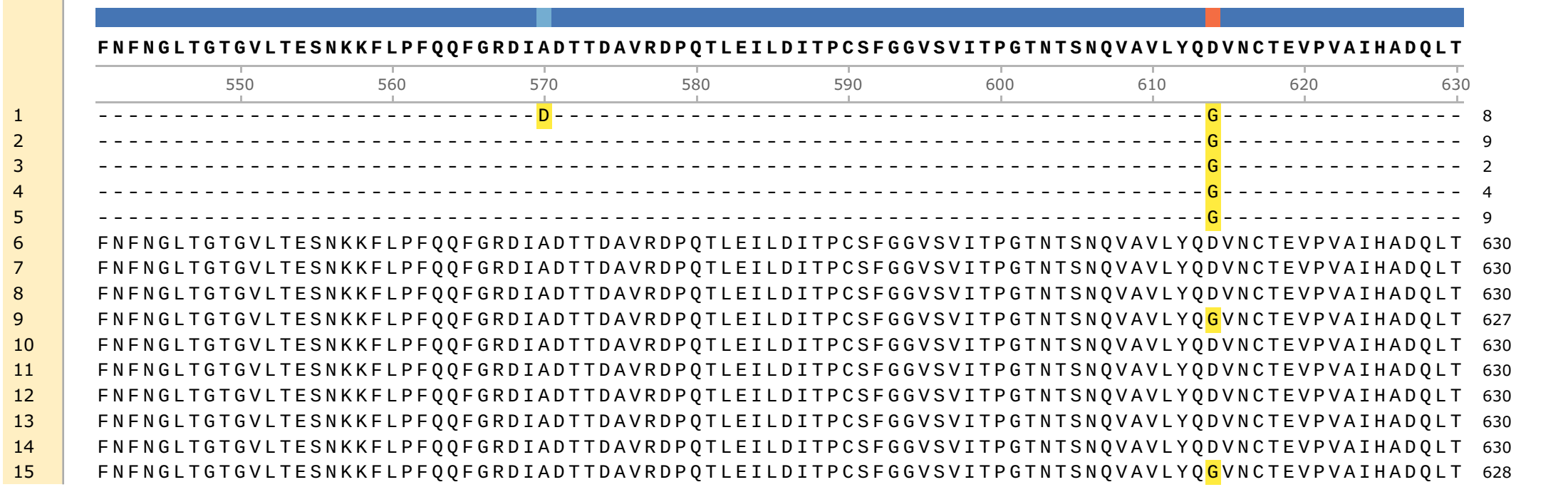
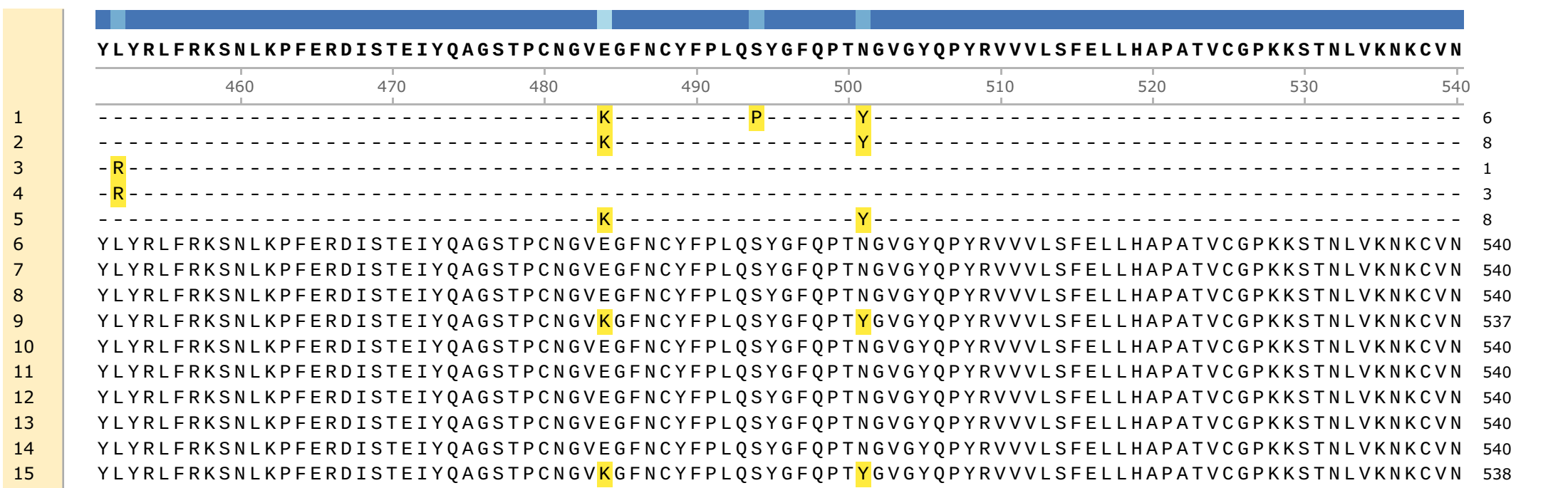
Consensus

- 1. B.1.1.7
- 2. B.1.351
- 3. B.1.427
- 4. B.1.429
- 5. P.1
- 6. Ref_YP_009724390.1 surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
- 7. Ref_QHD43416.1 surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
- 8. mRNA-1273_vaccine_translated
- 9. mRNA-1273.351_vaccine_translated
- 0. BNT-162b2_vaccine_translated
- 1. Ad26.COV2-S_vaccine_translated
- 2. NVX-CoV2373_vaccine_translated
- 3. Sputnik_V alleged unmodified YP_009724390.1
- 4. AZD1222 alleged unmodified YP_009724390.1
- 5. AZD2816 modified YP_009724390.1 variants from B.1.351



QPRTFLLKYNENGTITDAVDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRRKRISN																																																																																											
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6	Q	P	R	T	F	L	L	K	Y	N	E	N	G	T	I	T	D	A	V	D	C	A	L	D	P	L	S	E	T	K	C	T	L	K	S	F	T	V	E	K	G	I	Y	Q	T	S	N	F	R	V	Q	P	T	E	S	I	V	R	F	P	N	I	T	N	L	C	P	F	G	E	V	F	N	A	T	R	F	A	S	V	Y	A	W	N	R	K	R	I	S	N	360
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CVADYSVLYNSASFSTFKCYGVSP TKLNDLCFTNVYADSFVIRGDEV RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYN																																																																																										
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6	C	V	A	D	Y	S	V	L	N	S	A	S	F	S	T	F	K	C	Y	G	V	S	P	T	K	L	N	D	L	C	F	T	N	V	Y	A	D	S	F	V	I	R	G	D	E	V	R	Q	I	A	P	G	Q	T	G	K	I	A	D	Y	N	Y	K	L	P	D	D	F	T	G	C	V	I	A	W	N	S	N	N	L	D	S	K	V	G	G	N	Y	N	450
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SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKDFGGFNFSQILPDPS															
	730	740	750	760	770	780	790	800	810						
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KPSKR SFIEDLLFNKVTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDemiaQYTSALLAGTITSGWTFGAGAALQIPFAM

820 830 840 850 860 870 880 890 900

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910 920 930 940 950 960 970 980 990

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8	VQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTTAPA	1080
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15	VQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTTAPA	1078

I C H D G K A H F P R E G V F V S N G T H W F V T Q R N F Y E P Q I I T T D N T F V S G N C D V V I G I V N N T V Y D P L Q P E L D S F K E E L D K Y F K N H T S P D V D L G D I S

1090 1100 1110 1120 1130 1140 1150 1160 1170

1	-----H-----	12
2	-----	10
3	-----	2
4	-----	4
5	-----	11
6	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1170
7	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1170
8	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1170
9	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1167
10	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1170
11	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1170
12	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1170
13	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1170
14	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1170
15	ICHDGKAHFPREGVFVSNGTHWFTVQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDIS	1168

GINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCCLKGCCSCGSCCKFDEDD									

Consensus Threshold: >50%

Compare to: the consensus

Amino acids that don't match the reference are marked with yellow highlighting.

Created: 28 Jun 2021

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