

Tracking a few SARS-CoV-2 mutations of interest

David Meyer

dmm@{1-4-5.net,uoregon.edu}

Last update: January 15, 2021

B.1.1.7 20B/501Y.V1	B.1.351 20C/501Y.V2	P.1 20J/501Y.V3
-	S:K417N	S:K417T
-	S:E484K	S:E484K
S:N501Y	S:N501Y	S:N501Y
S:P681H	-	-
del:69-70	-	-
Orf8:Q27*	-	-

Table 1: Mutations of interest found in current SARS-CoV-2 variants [2, 3]

gene	nucleotide	amino acid
ORF1ab	C3267T	T1001I
	C5388A	A1708D
	T6954C	I2230T
	11288-11296 deletion	SGF 3675- 3677 deletion
spike	21765-21770 deletion	HV 69-70 deletion
	21991-21993 deletion	Y144 deletion
	A23063T	N501Y
	C23271A	A570D
	C23604A	P681H
	C23709T	T716I
	T24506G	S982A
	G24914C	D1118H
Orf8	C27972T	Q27stop
	G28048T	R52I
	A28111G	Y73C
N	28280 GAT->CTA	D3L
	C28977T	S235F

Figure 1: Protein altering mutations defining the B.1.1.7 variant [1]

References

- [1] Investigation of novel sars-cov-2 variant (variant of concern 202012/01). https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/947048/Technical_Briefing_VOC_SH_NJL2_SH2.pdf, 2021. [Online; accessed 15-January-2021].
- [2] Nextstrain: Real-time tracking of pathogen evolution. <https://nextstrain.org>, 2021. [Online; accessed 14-January-2021].
- [3] Sars-cov-2 lineages. <https://cov-lineages.org>, 2021. [Online; accessed 14-January-2021].