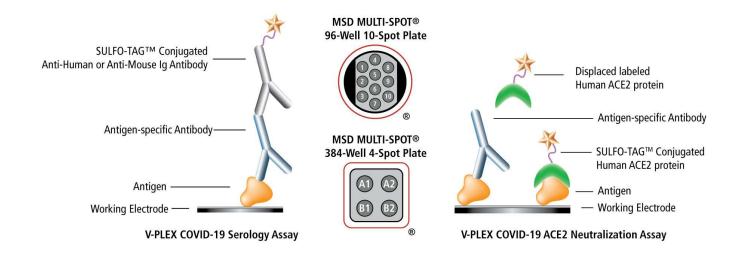


# V-PLEX Serology Panels for SARS-CoV-2 Variants

V-PLEX® Serology Panels are now available for more than 35 SARS-CoV-2 variants, including the Alpha, Beta, Gamma, Delta, Lambda, Mu, and Omicron variants. These tests supplement MSD's V-PLEX SARS-CoV-2 Panel 2, which was chosen by Operation Warp Speed (OWS) as the basis of its standard binding assays for immunogenicity assessments in all funded Phase III clinical trials of vaccines.

Kits are available for use with human and mouse samples. All human V-PLEX Serology Panels are provided as complete kits, including the same reference standards and controls used in OWS laboratories to analyze clinical trial samples. The Reference Standard 1 in human V-PLEX Serology kits is calibrated against the WHO International Standard (NIBSC code: 20/136).

Human kits are available in 96- and 384-well formats for quantitative serological testing and functional testing (ACE2 blocking). Mouse kits are available in 96-well format for qualitative serological testing.



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## SARS-CoV-2 Spike Antigens

Lineages	Amino Acid Modifications	Common Designation
A.23.1	F157L, V367F, Q613H, P681R	Uganda
A.VOI.V2	D80Y, ΔΥ144, ΔΙ210, D215G, Δ246-248, L249M, W258L, R346K, T478R, E484K, H655Y, P681H, Q957H	Tanzania
AY.1	T19R, Δ157/158, K417N, L452R, T478K, D614G, P681R, D950N	Delta sublineage
AY.1	(Alt Seq 1): T19R, T95I, G142D, E156G, Δ157/158, W258L, K417N, L452R, T478K, D614G, P681R, D950N	Delta sublineage
AY.2	T19R, V70F, G142D, Δ157/158, A222V, K417N, L452R, T478K, D614G, P681R, D950N	Delta sublineage
AY.2	(Alt Seq 1): T19R, V70F, G142D, E156G, Δ157/158, A222V, K417N, L452R, T478K, D614G, P681R, D950N	Delta sublineage
AY.4.2	T19R, T95I, G142D, Y145H, Δ156/157, R158G, A222V, L452R, T478K, D614G, P681R, D950N	Delta sublineage
AY.12	T19R, Δ156/157, R158G, L452R, T478K, D614G, P681R, D950N	Delta sublineage
BA.1+L452R	A67V, Δ69-70, T95I, G142D/Δ143-145, Δ211/L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, L452R, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F	Omicron sublineage
BA.1+R346K; BA.1.1; BA.1.1.15	A67V, Δ69-70, T95I, G142D/Δ143-145, Δ211/L212I, ins214EPE, G339D, R346K, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F	Omicron sublineages
BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12	T19I, (L24-A27)toS, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineages
BA.2+L452M	T19I(L24-A27)toS, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452M, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BA.2+L452R	T19I, (L24-A27)toS, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BA.2.12.1	T19I, (L24-A27)toS, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, S704LN764K, D796Y, Q954H, N969K	Omicron sublineage
BA.2.75	T19I, L24-A27>S, G142D, K147E, W152R, F157L, I210V, V213G, G257S, G339H, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BA.2.75.2	T19I, L24-A27>S, G142D, K147E, W152R, F157L, I210V, V213G, G257S, G339H, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, F486S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K, D1199N	Omicron sublineage
BA.2.86	T19I, R21T, L24-A27>S, S50L, H69del, V70del, V127F, G142D, Y144del, F157S, R158G, N211del, L212I, V213G, L216F, H245N, A264D, I332V, G339H, K356T, S371F, S373P, S375F, T376A, R403K, D405N, R408S, K417N, N440K, V445H, G446S, N450D, L452W, N460K, S477N, T478K, N481K, V483del, E484K, F486P, Q498R, N501Y, Y505H, E554K, A570V, D614G, P621S, H655Y, I670V, N679K, P681R, N764K, D796Y, S939F, Q954H, N969K, P1143L	Omicron sublineage
BA.3	A67V, H69-V70del, T95I, G142D, V143-Y145del, (N211-L212)tol, G339D, S371F, S373P, S375F, D405N, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BA.4	T19I, (L24-A27)toS, del69/70, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N658S, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BA.4.6	V3G, T19I, L24-A27>S, H69-V70del, G142D, V213G, G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N658S, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BA.5	T19I, (L24-A27)toS, del69/70, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BF.7	T19I, L24-A27>S, H69-V70del, G142D, V213G, G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BN.1	T19I, L24-A27>S, G142D, K147E, W152R, F157L, I210V, V213G, G257S, G339H, R346T, K356T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage



Lineages	Amino Acid Modifications	Common Designation
BQ.1	T19I, L24-A27>S, H69-V70del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, K444T, L452R, N460K, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BQ.1.1	T19I, L24-A27>S, H69-V70del, G142D, V213G, G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, K444T, L452R, N460K, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H,D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
BV-1	ΔH69-V70, ΔY144, Q493R, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H	Texas BV-1
B.1	D614G	-
B.1.1.519	T478K, D614G, P681H, T732A	Mexico/Texas BV-2
B.1.1.529; BA.1; BA.1.15	A67V, ΔH69-V70, T95I, G142D, Δ143-145, Δ211/L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F	Omicron sublineages
B.1.1.7	ΔH69-V70, ΔY144, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H	Alpha
B.1.1.7+E484K	ΔH69-V70, ΔY144, E484K, N501Y, A570D, D614G, P681H, T716l, S982A, D1118H	U.K.
B.1.258.17	ΔH69-V70, L189F, N439K, D614G, V772l	Europe
B.1.351	L18F, D80A, D215G, Δ242-244, R246l, K417N, E484K, N501Y, D614G, A701V	Beta
B.1.351.1	D80A, D215G, K417N, E484K, N501Y, D614G, A701V	Botswana
B.1.429	S13I, W152C, L452R, D614G	Epsilon
B.1.466.2	W152R, N439K, D614G, P681R	Indonesia
B.1.525	Q52R, A67V, ΔH69-V70, ΔY144, E484K, Q677H, D614G, F888L	Eta
B.1.526	L5F, T95I, D253G, E484K, D614G, A701V	lota
B.1.526.1	D80G, ΔΥ144, F157S, L452R, D614G, T859N, D950H	New York
B.1.617	L452R, E484Q, D614G	India
B.1.617.1	T95I, G142D, E154K, L452R, E484Q, D614G, P681R, Q1071H	Карра
B.1.617.2	T19R, Δ157/158, L452R, T478K, D614G, P681R, D950N	Delta sublineage
B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14	(Alt Seq 1): T19R, G142D, Δ156/157, R158G, L452R, T478K, D614G, P681R, D950N	Delta sublineages
B.1.617.2 +1	T19R, G142D, Δ156/157, R158G, L452R, T478K, E484K, D614G, P681R, D950N	Delta +1
B.1.617.2 +2	T19R, G142D, Δ156/157, R158G, L452R, T478K, E484K, N501Y, D614G, P681R, D950N	Delta +2
B.1.617.2 +3	T19R, G142D, Δ156/157, R158G, K417N, L452R, T478K, E484K, N501Y, D614G, P681R, D950N	Delta +3
B.1.617.2 +4	T19R, G142D, Δ156/157, R158G, K417N, N439K, L452R, T478K, E484K, N501Y, D614G, P681R, D950N	Delta +4
B.1.617.2; AY.4	(Alt Seq 2): T19R, T95I, G142D, Δ156/157, R158G, L452R, T478K, D614G, P681R, D950N	Delta sublineages
B.1.617.2+ΔY144	T19R, ΔY144, Δ157/158, L452R, T478K, D614G, P681R, D950N	Vietnam
B.1.617.3	T19R, G142D, L452R, E484Q, D614G, P681R, D950N	India
B.1.618	ΔΥ145/146, E484K, D614G	India
B.1.620	P26S, ΔH69-V70, V126A, ΔY144, Δ242-244, H245Y, S477N, E484K, D614G, P681H, T1027I, D1118H	Europe
B.1.621	T95I, Y144T, Y145S, ins146N, R346K, E484K, N501Y, D614G, P681H, D950N	Mu
B.1.640.2	P9L, E96Q, C136-Y144del, R190S, D215H, R346S, N394S, Y449N, E484K, F490S, N501Y, D614G, P681H, T859N, D1139H	France (IHU)
C.37	G75V, T76I, ΔR246, ΔS247, ΔY248, ΔL249, ΔT250, ΔP251, ΔG252, D253N, L452Q, F490S, D614G, T859N	Lambda
EG.5.1	T19I, L24-A27>S, Q52H, G142D, Y144del, H146Q, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, F456L, N460K, S477N, T478K, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
FL.1.5.1	T19I, L24-A27>S, G142D, Y144del, H146Q, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, F456L, N460K, S477N, T478R, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, A701V, N764K, D796Y, Q954H, N969K	Omicron sublineage
HV.1	T19I, L24-A27>S, O52H, V83A, G142D, Y144del, H146Q, F157L, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, L452R, F456L, N460K, S477N, T478K, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage



Lineages	Amino Acid Modifications	Common Designation
JD.1.1	T19I, L24-A27>S, V83A, G142D, Y144del, H146Q, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, L455F, F456L, N460K, A475V, S477N, T478K, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
JN.1	T19I, R21T, L24-A27>S, S50L, H69del, V70del, V127F, G142D, Y144del, F157S, R158G, N211del, L212I, V213G, L216F, H245N, A264D, I332V, G339H, K356T, S371F, S373P, S375F, T376A, R403K, D405N, R408S, K417N, N440K, V445H, G446S, N450D, L452W, L455S, N460K, S477N, T478K, N481K, V483del, E484K, F486P, Q498R, N501Y, Y505H, E554K, A570V, D614G, P621S, H655Y, N679K, P681R, N764K, D796Y, S939F, Q954H, N969K, P1143L	Omicron sublineage
P.1	L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y, T1027I, V1176F	Gamma
P.2	E484K, D614G, V1176F	Zeta
P.3	Δ141-143, E484K, N501Y, D614G, P681H, E1092K, H1101Y, V1176F	Philippines
R.1	W152L, E484K, D614G, G769V	Kentucky
XBB.1	T19I, L24-A27>S, G142D, Y144del, H146Q, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478K, E484A, F486S, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
XBB.1.16	T19I, L24-A27>S, G142D, Y144del, H146Q, E180V, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478R, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
XBB.1.16.1	T19I, L24-A27>S, G142D, Y144del, H146Q, E180V, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478R, E484A, F486P, F490S, Q498R, N501Y, Y505H, T547I, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
XBB.1.16.6	T19I, L24-A27>S, G142D, Y144del, H146Q, E180V, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, F456L, N460K, S477N, T478R, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
XBB.1.5	T19I, L24-A27>S, G142D, Y144del, H146Q, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478K, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage
XBB.2.3	T19I, L24-A27>S, G142D, Y144del, H146Q, Q183E, V213E, D253G, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478K, E484A, F486P, F490S, Q498R, N501Y, Y505H, P521S, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K	Omicron sublineage

<sup>- =</sup> Not applicable

## SARS-CoV-2 S1 RBD Antigens

Lineages	Amino Acid Modifications	Common Designation
A.23.1	V367F	Uganda
A.VOI.V2	R346K, T478R, E484K	Tanzania
AY.1; AY.2	K417N, L452R, T478K	Delta sublineages
AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+ΔΥ144	L452R, T478K	Delta sublineages
BA.1.1; BA.1.1.15	G339D, R346K, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H	Omicron sublineages
BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.10.1; BA.2.12	G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H	Omicron sublineages
BA.2+L452M	G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452M, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H	Omicron sublineage
BA.2+L452R	G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H	Omicron sublineage
BA.2.12.1	G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H	Omicron sublineage
BA.2.75	G339H, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, Q498R, N501Y, Y505H	Omicron sublineage
BA.2.75.2	G339H, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, F486S, Q498R, N501Y, Y505H	Omicron sublineage
BA.3	G339D, S371F, S373P, S375F, D405N, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H	Omicron sublineage



Lineages	Amino Acid Modifications	Common Designation
BA.4; BA.5	G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H	Omicron sublineages
BA.4.6; BF.7	G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H	Omicron sublineages
BQ.1	G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, K444T, L452R, N460K, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H	Omicron sublineage
BQ.1.1	G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, K444T, L452R, N460K, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H	Omicron sublineage
BV-1	Q493R, N501Y	Texas BV-1
B.1.1.519	T478K	Mexico/Texas BV-2
B.1.1.529; BA.1; BA.1.15	G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H	Omicron sublineages
B.1.1.7	N501Y	Alpha
B.1.1.7+E484K; P.3	E484K, N501Y	U.K.; Philippines
B.1.214.2	Q414K, N450K	Belgium
B.1.258.17; B.1.466.2	N439K	Europe; Indonesia
B.1.351; B.1.351.1	K417N, E484K, N501Y	Beta; Botswana
B.1.427; B.1.429; B.1.526.1	L452R	Epsilon lineages; New York
B.1.525; B.1.526; B.1.618; P.2; R.1	E484K	Eta; lota; India; Zeta; Kentucky
B.1.526.2	S477N	New York
B.1.617; B.1.617.1; B.1.617.3	L452R, E484Q	India; Kappa; India
B.1.620	S477N, E484K	Europe
C.37	L452Q, F490S	Lambda
P.1	K417T, E484K, N501Y	Gamma
XBB.1	G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478K, E484A, F486S, F490S, Q498R, N501Y, Y505H	Omicron sublineage

#### SARS-CoV-2 Variant Focus Panels

SARS-CoV-2 384 Panel 2	Spot Location	Lineages	Antigens	Common Designation
Human KOE 420H (InC)	Spot A1	A (WT)	SARS-CoV-2 Spike	Wuhan
K25420U (IgG) K25421U (IgM)	Spot A2	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
K25422U (IgA) K25423U (ACE2)	Spot B1	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (B.1.351; B.1.351.1)	Beta; Botswana
	Spot B2	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta

SARS-CoV-2 Panel 5	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15429U (IgG) K15430U (IgM)	Spot 2	-	BSA	-
K15431U (lgA)	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
K15432U (ACE2) Mouse	Spot 4	-	BSA	-
K15478U (IgG)	Spot 5	-	BSA	-
K15479U (IgM) K15480U (IgA)	Spot 6	-	BSA	-
1 170-1000 (igh)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	-	BSA	-



SARS-CoV-2 Panel 6	Spot Location	Lineages	Antigens	Common Designation
Human K45400U (I=O)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15433U (lgG) K15434U (lgM)	Spot 2	B.1	SARS-CoV-2 Spike (D614G)	-
K15435U (IgA)	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
K15436U (ACE2) Mouse	Spot 4	-	BSA	•
K15481U (lgG)	Spot 5	-	BSA	•
K15482U (lgM) K15483U (lgA)	Spot 6	-	BSA	-
10104000 (IgA)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 7	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15437U (lgG) K15438U (lgM)	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (B.1.351; B.1.351.1)	Beta; Botswana
K15439U (lgA)	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
K15440U (ACE2)  Mouse	Spot 4	P.1	SARS-CoV-2 S1 RBD (P.1)	Gamma
K15484U (IgG)	Spot 5	-	BSA	-
K15485U (lgM) K15486U (lgA)	Spot 6	B.1.1.7	SARS-CoV-2 S1 RBD (B.1.1.7)	Alpha
101000 (1g/l)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 8	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15444U (IgG) K15445U (IgM) K15446U (IgA)	Spot 2	B.1.427; B.1.429; B.1.526.1	SARS-CoV-2 S1 RBD (B.1.427; B.1.429; B.1.526.1)	Epsilon lineages; New York
K15447U (ACE2)	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
Mouse K15487U (IgG) K15488U (IgM)	Spot 4	B.1.525; B.1.526; B.1.618; P.2; R.1	SARS-CoV-2 S1 RBD (B.1.525; B.1.526; B.1.618; P.2; R.1)	Eta; Iota; India; Zeta; Kentucky
K15489U (IgA)	Spot 5	-	BSA	-
	Spot 6	B.1.526.2	SARS-CoV-2 S1 RBD (B.1.526.2)	New York
	Spot 7	-	BSA	-
	Spot 8	B.1.526	SARS-CoV-2 Spike (B.1.526)	lota
	Spot 9	B.1.429	SARS-CoV-2 Spike (B.1.429)	Epsilon
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

## SARS-CoV-2 Variant Screening Panels

SARS-CoV-2 Panel 9	Spot Location	Lineages	Antigens	Common Designation
Human K15448U (lgG)	Spot 1	B.1.427; B.1.429; B.1.526.1	SARS-CoV-2 S1 RBD (L452R)	Epsilon, California, New York
K15449U (IgM) K15450U (IgA)	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (K417N, E484K, N501Y)	Beta, Botswana
K15451U (ACE2) Mouse	Spot 3	B.1.525; B.1.526; B.1.618; P.2; R.1	SARS-CoV-2 S1 RBD (E484K)	Eta, Iota, India, Zeta, Kentucky
K15490U (lgG) K15491U (lgM)	Spot 4	P.1	SARS-CoV-2 S1 RBD (K417T, E484K, N501Y)	Gamma
K15492U (lgA)	Spot 5	B.1.526.2	SARS-CoV-2 S1 RBD (S477N)	New York
	Spot 6	B.1.1.7	SARS-CoV-2 S1 RBD (N501Y)	Alpha
	Spot 7	B.1.1.7+E484K; P.3	SARS-CoV-2 S1 RBD (E484K, N501Y)	U.K., Philippines
	Spot 8	B.1.617; B.1.617.1; B.1.617.3	SARS-CoV-2 S1 RBD (L452R, E484Q)	Kappa, India
	Spot 9	B.1.214.2	SARS-CoV-2 S1 RBD (Q414K, N450K)	Belgium
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan



SARS-CoV-2 Panel 11	Spot Location	Lineages	Antigens	Common Designation
Human K15455U (IgG)	Spot 1	B.1.427; B.1.429; B.1.526.1	SARS-CoV-2 S1 RBD (L452R)	Epsilon, California, New York
K15456U (lgM) K15457U (lgA)	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (K417N, E484K, N501Y)	Beta, Botswana
K15458U (ACE2) Mouse	Spot 3	B.1.525; B.1.526; B.1.618; P.2; R.1	SARS-CoV-2 S1 RBD (E484K)	Eta, lota, India, Zeta, Kentucky
K15495U (lgG) K15496U (lgM)	Spot 4	P.1	SARS-CoV-2 S1 RBD (K417T, E484K, N501Y)	Gamma
K15497U (IgA)	Spot 5	B.1.526.2	SARS-CoV-2 S1 RBD (S477N)	New York
	Spot 6	B.1.1.7	SARS-CoV-2 S1 RBD (N501Y)	Alpha
	Spot 7	B.1.1.7+E484K; P.3	SARS-CoV-2 S1 RBD (E484K, N501Y)	U.K., Philippines
	Spot 8	B.1.617; B.1.617.1; B.1.617.3	SARS-CoV-2 S1 RBD (L452R, E484Q)	Kappa, India
	Spot 9	AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+Δ144	SARS-CoV-2 S1 RBD (L452R, T478K)	<b>Delta</b> sublineages, Vietnam
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 12	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A.23.1	SARS-CoV-2 S1 RBD (V367F)	Uganda
K15459U (lgG) K15460U (lgM)	Spot 2	C.37	SARS-CoV-2 S1 RBD (L452Q, F490S)	Lambda
K15461U (IgA) K15462U (ACE2)	Spot 3	B.1.525; B.1.526; B.1.618; P.2; R.1	SARS-CoV-2 S1 RBD (E484K)	Eta, lota, India, Zeta, Kentucky
Mouse	Spot 4	BV-1	SARS-CoV-2 S1 RBD (Q493R, N501Y)	Texas BV-1
K15503U (lgG) K15504U (lgM)	Spot 5	B.1.1.519	SARS-CoV-2 S1 RBD (T478K)	Mexico/Texas BV-2
K15505U (lgA)	Spot 6	A.V0I.V2	SARS-CoV-2 S1 RBD (R346K, T478R, E484K)	Tanzania
	Spot 7	B.1.1.7+E484K; P.3	SARS-CoV-2 S1 RBD (E484K, N501Y)	U.K., Philippines
	Spot 8	B.1.617; B.1.617.1; B.1.617.3	SARS-CoV-2 S1 RBD (L452R, E484Q)	Kappa, India
	Spot 9	AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+Δ144	SARS-CoV-2 S1 RBD (L452R, T478K)	<b>Delta</b> sublineages, Vietnam
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 13	Spot Location	Lineages	Antigens	Common Designation
Human K15460H (InC)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15463U (IgG) K15464U (IgM)	Spot 2	P.2	SARS-CoV-2 Spike (P.2)	Zeta
K15465U (lgA)	Spot 3	B.1.617.1	SARS-CoV-2 Spike (B.1.617.1)	Карра
K15466U (ACE2)  Mouse	Spot 4	B.1.617.2	SARS-CoV-2 Spike (B.1.617.2)	<b>Delta</b> sublineage
K15506U (lgG)	Spot 5	B.1.617.3	SARS-CoV-2 Spike (B.1.617.3)	India
K15507U (IgM) K15508U (IgA)	Spot 6	B.1.617	SARS-CoV-2 Spike (B.1.617)	India
(igA)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	B.1.526.1	SARS-CoV-2 Spike (B.1.526.1)	New York

SARS-CoV-2 Panel 14	Spot Location	Lineages	Antigens	Common Designation
Human K15 400 L (I=0)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15468U (IgG) K15469U (IgM)	Spot 2	A.23.1	SARS-CoV-2 Spike (A.23.1)	Uganda
K15470U (lgA)	Spot 3	A.VOI.V2	SARS-CoV-2 Spike (A.VOI.V2)	Tanzania
K15471U (ACE2) Mouse	Spot 4	B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14	SARS-CoV-2 Spike (B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14) Alt Seq 1	Delta sublineages
K15509U (IgG) K15510U (IgM)	Spot 5	C.37	SARS-CoV-2 Spike (C.37)	Lambda
K15511U (lgA)	Spot 6	R.1	SARS-CoV-2 Spike (R.1)	Kentucky
	Spot 7	P.3	SARS-CoV-2 Spike (P.3)	Philippines
	Spot 8	B.1.525	SARS-CoV-2 Spike (B.1.525)	Eta
	Spot 9	B.1.1.519	SARS-CoV-2 Spike (B.1.1.519)	Mexico/Texas BV-2
	Spot 10	BV-1	SARS-CoV-2 Spike (BV-1)	Texas BV-1



SARS-CoV-2 Panel 15	Spot Location	Lineages	Antigens	Common Designation
Human K4 F 400 L (I=0)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15499U (IgG) K15500U (IgM)	Spot 2	AY.1	SARS-CoV-2 Spike (AY.1)	Delta sublineage
K15501U (lgA)	Spot 3	AY.2	SARS-CoV-2 Spike (AY.2)	Delta sublineage
K15502U (ACE2) Mouse	Spot 4	B.1.617.2+ΔΥ144	SARS-CoV-2 Spike (B.1.617.2+ΔY144)	Vietnam
K15512U (lgG)	Spot 5	B.1.620	SARS-CoV-2 Spike (B.1.620)	Europe
K15513U (lgM) K15514U (lgA)	Spot 6	B.1.258.17	SARS-CoV-2 Spike (B.1.258.17)	Europe
TOOT TO (IG/I)	Spot 7	B.1.466.2	SARS-CoV-2 Spike (B.1.466.2)	Indonesia
	Spot 8	B.1.1.7+E484K	SARS-CoV-2 Spike (B.1.1.7+E484K)	U.K.
	Spot 9	B.1.351.1	SARS-CoV-2 Spike (B.1.351.1)	Botswana
	Spot 10	B.1.618	SARS-CoV-2 Spike (B.1.618)	India

SARS-CoV-2 Panel 16	Spot Location	Lineages	Antigens	Common Designation
Human K15516U (lgG)	Spot 1	AY.1; AY.2	SARS-CoV-2 S1 RBD (K417N, L452R, T478K)	Delta sublineages
K15517U (IgM) K15518U (IgA)	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (K417N, E484K, N501Y)	Beta, Botswana
K15519U (ACE2) Mouse	Spot 3	B.1.525; B.1.526; B.1.618; P.2; R.1	SARS-CoV-2 S1 RBD (E484K)	Eta, lota, India, Zeta, Kentucky
K15520U (IgG) K15521U (IgM)	Spot 4	B.1.620	SARS-CoV-2 S1 RBD (S477N, E484K)	Europe
K15522U (IgA)	Spot 5	-	BSA	-
	Spot 6	-	BSA	-
	Spot 7	B.1.1.7+E484K; P.3	SARS-CoV-2 S1 RBD (E484K, N501Y)	U.K., Philippines
	Spot 8	B.1.258.17; B.1.466.2	SARS-CoV-2 S1 RBD (N439K)	Indonesia
	Spot 9	AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+Δ144	SARS-CoV-2 S1 RBD (L452R, T478K)	Delta sublineages, Vietnam
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 17	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15524U (lgG) K15525U (lgM)	Spot 2	B.1	SARS-CoV-2 Spike (D614G)	-
K15526U (lgA)	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
K15527U (ACE2) Mouse	Spot 4	B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14	SARS-CoV-2 Spike (B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14) Alt Seq 1	Delta sublineages
K15528U (lgG) K15529U (lgM)	Spot 5	-	BSA	-
K15530U (IgA)	Spot 6	-	BSA	-
	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 18	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15532U (lgG) K15533U (lgM)	Spot 2	P.2	SARS-CoV-2 Spike (P.2)	Zeta
K15534U (lgA)	Spot 3	B.1.617.1	SARS-CoV-2 Spike (B.1.617.1)	Карра
K15535U (ACE2) Mouse	Spot 4	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
K15536U (IgG)	Spot 5	B.1.617.3	SARS-CoV-2 Spike (B.1.617.3)	India
K15537U (IgM) K15538U (IgA)	Spot 6	B.1.617	SARS-CoV-2 Spike (B.1.617)	India
1 K100000 (IgA)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
Spot 9	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	B.1.526.1	SARS-CoV-2 Spike (B.1.526.1)	New York



SARS-CoV-2 Panel 19	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15540U (lgG) K15541U (lgM)	Spot 2	B.1.621	SARS-CoV-2 Spike (B.1.621)	Mu
K15542U (lgA)	Spot 3	AY.2	SARS-CoV-2 Spike (AY.2) Alt Seq 1	Delta sublineage
K15543U (ACE2) Mouse	Spot 4	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
K15544U (lgG)	Spot 5	C.37	SARS-CoV-2 Spike (C.37)	Lambda
K15545U (IgM) K15546U (IgA)	Spot 6	AY.12	SARS-CoV-2 Spike (AY.12)	Delta sublineage
1(135400 (igA)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
<u> </u>	Spot 8	AY.1	SARS-CoV-2 Spike (AY.1) Alt Seq 1	Delta sublineage
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14	SARS-CoV-2 Spike (B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14) Alt Seq 1	Delta sublineages

SARS-CoV-2 Panel 20	Spot Location	Lineages	Antigens	Common Designation
Human K4555411 (In O)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15551U (IgG) K15552U (IgM)	Spot 2	B.1.617.2 +4	SARS-CoV-2 Spike (B.1.617.2 +4)	Delta +4
K15553U (lgA)	Spot 3	B.1.617.2 +3	SARS-CoV-2 Spike (B.1.617.2 +3)	Delta +3
K15554U (ACE2) Mouse	Spot 4	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
K15555U (lgG)	Spot 5	B.1.617.2 +2	SARS-CoV-2 Spike (B.1.617.2 +2)	Delta +2
K15556U (IgM) K15557U (IgA)	Spot 6	B.1.617.2 +1	SARS-CoV-2 Spike (B.1.617.2 +1)	Delta +1
100070 (igh)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
Spot 8 Spot 9	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14	SARS-CoV-2 Spike (B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14) Alt Seq 1	Delta sublineages

Note: Alternative S-GENE mutations for Spike of B.1.617.2 are listed as "Alt Seq #."

SARS-CoV-2 Panel 22	Spot Location	Lineages	Antigens	Common Designation
Human K15559U (IgG) K15560U (IaM)	Spot 1	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 S1 RBD (G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)	Omicron sublineages
K15561U (IgA)	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (K417N, E484K, N501Y)	Beta, Botswana
K15562U (ACE2) Mouse	Spot 3	-	BSA	-
K15563U (lgG)	Spot 4	P.1	SARS-CoV-2 S1 RBD (K417T, E484K, N501Y)	Gamma
K15564U (IgM) K15565U (IgA)	Spot 5	-	BSA	-
(3 )	Spot 6	B.1.1.7	SARS-CoV-2 S1 RBD (N501Y)	Alpha
	Spot 7	-	BSA	-
	Spot 8	-	BSA	-
	Spot 9	AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+Δ144	SARS-CoV-2 S1 RBD (L452R, T478K)	Delta sublineages, Vietnam
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 23	Spot Location	Lineages	Antigens	Common Designation
Human K4.5507H (InO)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15567U (lgG) K15568U (lgM)	Spot 2	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 Spike (B.1.1.529; BA.1; BA.1.15)	Omicron sublineages
K15569U (lgA)	Spot 3	AY.4.2	SARS-CoV-2 Spike (AY.4.2)	Delta sublineage
K15570U (ACE2) Mouse	Spot 4	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
K15571U (lgG)	Spot 5	-	BSA	-
K15572U (lgM) K15573U (lgA)	Spot 6	-	BSA	-
100700 (ig/l)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
<u> </u>	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14	SARS-CoV-2 Spike (B.1.617.2; AY.3; AY.5; AY.6; AY.7; AY.14) Alt Seq 1	Delta sublineages



SARS-CoV-2 Panel 24	Spot Location	Lineages	Antigens	Common Designation
Human K15575H (I=0)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15575U (lgG) K15576U (lgM)	Spot 2	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 Spike (B.1.1.529; BA.1; BA.1.15)	Omicron sublineages
K15577U (lgA)	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
K15578U (ACE2) Mouse	Spot 4	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
K15579U (IgG)	Spot 5	-	BSA	-
K15580U (IgM) K15581U (IgA)	Spot 6	-	BSA	-
(19A)	Spot 7	P.1	SARS-CoV-2 Spike (P.1)	Gamma
<u> </u>	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 25	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15583U (IgG) K15584U (IgM)	Spot 2	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 Spike (B.1.1.529; BA.1; BA.1.15)	Omicron sublineages
K15585U (IgA) K15586U (ACE2) <b>Mouse</b> K15587U (IgG)	Spot 3	BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12	SARS-CoV-2 Spike (BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12)	Omicron sublineages
K15588U (IgM) K15589U (IgA)	Spot 4	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
(IgA)	Spot 5	BA.3	SARS-CoV-2 Spike (BA.3)	Omicron sublineage
	Spot 6	BA.1+R346K; BA.1.1; BA.1.1.15	SARS-CoV-2 Spike (BA.1+R346K; BA.1.1; BA.1.1.15)	Omicron sublineages
	Spot 7	BA.1+L452R	SARS-CoV-2 Spike (BA.1+L452R)	Omicron sublineage
	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	B.1.640.2	SARS-CoV-2 Spike (B.1.640.2)	France (IHU)

SARS-CoV-2 Panel 26	Spot Location	Lineages	Antigens	Common Designation
Human K15593U (IgG) K15594U (IgM) K15595U (IgA)	Spot 1	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 S1 RBD (G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)	Omicron sublineages
K15596U (ACE2) Mouse	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (K417N, E484K, N501Y)	Beta, Botswana
K15597U (IgG) K15598U (IgM) K15599U (IgA)	Spot 3	BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.10.1; BA.2.12	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 4	P.1	SARS-CoV-2 S1 RBD (K417T, E484K, N501Y)	Gamma
	Spot 5	-	BSA	-
	Spot 6	B.1.1.7	SARS-CoV-2 S1 RBD (N501Y)	Alpha
	Spot 7	-	BSA	-
	Spot 8	BA.1.1; BA.1.1.15	SARS-CoV-2 S1 RBD (G339D, R346K, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 9	AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+Δ144	SARS-CoV-2 S1 RBD (L452R, T478K)	Delta sublineages, Vietnam
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan



SARS-CoV-2 Panel 27	Spot Location	Lineages	Antigens	Common Designation
Human K45000H (I=0)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15606U (lgG) K15607U (lgM)	Spot 2	BA.2.12.1	SARS-CoV-2 Spike (BA.2.12.1)	Omicron sublineage
K15608U (IgA) K15609U (ACE2) <b>Mouse</b>	Spot 3	BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12	SARS-CoV-2 Spike (BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12)	Omicron sublineages
K15610U (lgG) K15611U (lgM)	Spot 4	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
K15612U (lgA)	Spot 5	BA.3	SARS-CoV-2 Spike (BA.3)	Omicron sublineage
	Spot 6	BA.2+L452M	SARS-CoV-2 Spike (BA.2+L452M)	Omicron sublineage
	Spot 7	BA.2+L452R	SARS-CoV-2 Spike (BA.2+L452R)	Omicron sublineage
	Spot 8	BA.4	SARS-CoV-2 Spike (BA.4)	Omicron sublineage
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage

SARS-CoV-2 Panel 28	Spot Location	Lineages	Antigens	Common Designation
Human K15614U (IgG) K15615U (IgM) K15616U (IgA)	Spot 1	BA.2.12.1	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineage
K15617U (ACE2)	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (K417N, E484K, N501Y)	Beta, Botswana
Mouse K15618U (IgG) K15619U (IgM) K15620U (IgA)	Spot 3	BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.10.1; BA.2.12	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 4	BA.2+L452M	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452M, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 5	BA.2+L452R	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 6	B.1.1.7	SARS-CoV-2 S1 RBD (N501Y)	Alpha
	Spot 7	BA.4; BA.5	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 8	BA.3	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, D405N, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 9	AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+Δ144	SARS-CoV-2 S1 RBD (L452R, T478K)	<b>Delta</b> sublineages, Vietnam
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 29	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15624U (lgG) K15625U (lgM)	Spot 2	BA.2.12.1	SARS-CoV-2 Spike (BA.2.12.1)	Omicron sublineage
K15626U (lgA) K15627U (ACE2) <b>Mouse</b>	Spot 3	BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12	SARS-CoV-2 Spike (BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12)	Omicron sublineages
K15628U (lgG) K15629U (lgM)	Spot 4	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
K15630U (IgA)	Spot 5	-	BSA	-
	Spot 6	-	BSA	-
	Spot 7	BA.2.75	SARS-CoV-2 Spike (BA.2.75)	Omicron sublineage
	Spot 8	BA.4	SARS-CoV-2 Spike (BA.4)	Omicron sublineage
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage



SARS-CoV-2 Panel 30	Spot Location	Lineages	Antigens	Common Designation
Human K15632U (IgG) K15633U (IgM) K15634U (IgA)	Spot 1	BA.2.12.1	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineage
K15635U (ACE2)	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (K417N, E484K, N501Y)	Beta, Botswana
Mouse K15636U (lgG) K15637U (lgM) K15638U (lgA)	Spot 3	BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.10.1; BA.2.12	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 4	-	BSA	-
	Spot 5	-	BSA	-
	Spot 6	B.1.1.7	SARS-CoV-2 S1 RBD (N501Y)	Alpha
	Spot 7	BA.4; BA.5	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 8	BA.2.75	SARS-CoV-2 S1 RBD (G339H, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 9	AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+Δ144	SARS-CoV-2 S1 RBD (L452R, T478K)	Delta sublineages, Vietnam
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 31	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15642U (lgG) K15643U (lgM)	Spot 2	-	BSA	-
K15644U (IgA)	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
K15645U (ACE2) Mouse	Spot 4	-	BSA	-
K15646U (IgG)	Spot 5	-	BSA	-
K15647U (IgM) K15648U (IgA)	Spot 6	-	BSA	-
(ig/ly	Spot 7	-	BSA	-
	Spot 8	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage
	Spot 9	BA.4; BA.5	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 32	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15668U (lgG) K15669U (lgM)	Spot 2	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 Spike (B.1.1.529; BA.1; BA.1.15)	Omicron sublineages
K15670U (lgA)	Spot 3	XBB.1	SARS-CoV-2 Spike (XBB.1)	Omicron sublineage
K15671U (ACE2) Mouse	Spot 4	BF.7	SARS-CoV-2 Spike (BF.7)	Omicron sublineage
K15672U (IgG)	Spot 5	BA.2.75.2	SARS-CoV-2 Spike (BA.2.75.2)	Omicron sublineage
K15673U (IgM) K15674U (IgA)	Spot 6	BQ.1.1	SARS-CoV-2 Spike (BQ.1.1)	Omicron sublineage
(130740 (194)	Spot 7	BA.2.75	SARS-CoV-2 Spike (BA.2.75)	Omicron sublineage
	Spot 8	BA.4.6	SARS-CoV-2 Spike (BA.4.6)	Omicron sublineage
	Spot 9	BQ.1	SARS-CoV-2 Spike (BQ.1)	Omicron sublineage
	Spot 10	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage



SARS-CoV-2 Panel 33	Spot Location	Lineages	Antigens	Common Designation
Human K15676U (IgG) K15677U (IgM)	Spot 1	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 S1 RBD (G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)	Omicron sublineages
K15678U (IgA) K15679U (ACE2) <b>Mouse</b>	Spot 2	BQ.1.1	SARS-CoV-2 S1 RBD (G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, K444T, L452R, N460K, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)	Omicron sublineage
K15680U (lgG) K15681U (lgM) K15682U (lgA)	Spot 3	BA.2.75.2	SARS-CoV-2 S1 RBD (G339H, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, F486S, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 4	BA.4.6; BF.7	SARS-CoV-2 S1 RBD (G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 5	-	BSA	-
	Spot 6	XBB.1	SARS-CoV-2 S1 RBD (G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478K, E484A, F486S, F490S, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 7	BA.4; BA.5	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 8	BA.2.75	SARS-CoV-2 S1 RBD (G339H, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 9	BQ.1	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, K444T, L452R, N460K, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan

SARS-CoV-2 Panel 34	Spot Location	Lineages	Antigens	Common Designation
Human K15000H (I=0)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15690U (lgG) K15691U (lgM)	Spot 2	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 Spike (B.1.1.529; BA.1; BA.1.15)	Omicron sublineages
K15693U (ACE2)	Spot 3	XBB.1	SARS-CoV-2 Spike (XBB.1)	Omicron sublineage
Mouse K15694U (lqG)	Spot 4	BF.7	SARS-CoV-2 Spike (BF.7)	Omicron sublineage
K15695U (lgM)	Spot 5	XBB.1.5	SARS-CoV-2 Spike (XBB.1.5)	Omicron sublineage
K15696U (IgA)	Spot 6	BQ.1.1	SARS-CoV-2 Spike (BQ.1.1)	Omicron sublineage
S	Spot 7	BA.2.75	SARS-CoV-2 Spike (BA.2.75)	Omicron sublineage
	Spot 8	BN.1	SARS-CoV-2 Spike (BN.1)	Omicron sublineage
	Spot 9	BQ.1	SARS-CoV-2 Spike (BQ.1)	Omicron sublineage
	Spot 10	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage

SARS-CoV-2 Panel 36	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15715U (lgG) K15716U (ACE2)	Spot 2	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 Spike (B.1.1.529; BA.1; BA.1.15)	Omicron sublineages
,,	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
	Spot 4	XBB.1.16.1	SARS-CoV-2 Spike (XBB.1.16.1)	Omicron sublineage
	Spot 5	XBB.1.5	SARS-CoV-2 Spike (XBB.1.5)	Omicron sublineage
	Spot 6	BQ.1.1	SARS-CoV-2 Spike (BQ.1.1)	Omicron sublineage
	Spot 7	XBB.1.16	SARS-CoV-2 Spike (XBB.1.16)	Omicron sublineage
	Spot 8	XBB.2.3	SARS-CoV-2 Spike (XBB.2.3)	Omicron sublineage
	Spot 9	XBB.1	SARS-CoV-2 Spike (XBB.1)	Omicron sublineage
	Spot 10	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage



SARS-CoV-2 Panel 37	Spot Location	Lineages	Antigens	Common Designation
Human	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
K15721U (IgG) K15722U (ACE2)	Spot 2	FL.1.5.1	SARS-CoV-2 Spike (FL.1.5.1)	Omicron sublineage
	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
	Spot 4	BA.2.86	SARS-CoV-2 Spike (BA.2.86)	Omicron sublineage
	Spot 5	XBB.1.5	SARS-CoV-2 Spike (XBB.1.5)	Omicron sublineage
	Spot 6	EG.5.1	SARS-CoV-2 Spike (EG.5.1)	Omicron sublineage
	Spot 7	XBB.1.16	SARS-CoV-2 Spike (XBB.1.16)	Omicron sublineage
	Spot 8	XBB.2.3	SARS-CoV-2 Spike (XBB.2.3)	Omicron sublineage
	Spot 9	XBB.1.16.6	SARS-CoV-2 Spike (XBB.1.16.6)	Omicron sublineage
	Spot 10	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage

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SARS-CoV-2 Panel 38	Spot Location	Lineages	Antigens	Common Designation
Human K15725U (IgG) K15726U (IgA) K15727U (ACE2)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan
	Spot 2	FL.1.5.1	SARS-CoV-2 Spike (FL.1.5.1)	Omicron sublineage
	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan
	Spot 4	BA.2.86	SARS-CoV-2 Spike (BA.2.86)	Omicron sublineage
	Spot 5	XBB.1.5	SARS-CoV-2 Spike (XBB.1.5)	Omicron sublineage
	Spot 6	EG.5.1	SARS-CoV-2 Spike (EG.5.1)	Omicron sublineage
	Spot 7	JN.1	SARS-CoV-2 Spike (JN.1)	Omicron sublineage
	Spot 8	JD.1.1	SARS-CoV-2 Spike (JD.1.1)	Omicron sublineage
	Spot 9	HV.1	SARS-CoV-2 Spike (HV.1)	Omicron sublineage
	Spot 10	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage

## SARS-CoV-2 Key Variant Focus Panels

SARS-CoV-2 Key Variant Spike Panel 1	Spot Location	Lineages	Antigens	Common Designation
Human K15651U (IgG) K15652U (IgM) K15653U (IgA) K15654U (ACE2) Mouse K15655U (IgG) K15656U (IgM) K15657U (IgA)	Spot 1	A (WT)	SARS-CoV-2 Spike	Wuhan A (WT)
	Spot 2	BA.2.12.1	SARS-CoV-2 Spike (BA.2.12.1)	Omicron sublineage
	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan A (WT)
	Spot 4	BA.2.75	SARS-CoV-2 Spike (BA.2.75)	Omicron sublineage
	Spot 5	BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12	SARS-CoV-2 Spike (BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12)	Omicron sublineages
	Spot 6	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 Spike (B.1.1.529; BA.1; BA.1.15)	Omicron sublineages
	Spot 7	B.1.617.2; AY.4	SARS-CoV-2 Spike (B.1.617.2; AY.4) Alt Seq 2	Delta sublineages
	Spot 8	B.1.1.7	SARS-CoV-2 Spike (B.1.1.7)	Alpha
	Spot 9	B.1.351	SARS-CoV-2 Spike (B.1.351)	Beta
	Spot 10	BA.5	SARS-CoV-2 Spike (BA.5)	Omicron sublineage



SARS-CoV-2 Key Variant RBD Panel 1	Spot Location	Lineages	Antigens	Common Designation
Human K15659U (IgG) K15660U (IgM) K15661U (IgA) K15662U (ACE2) Mouse K15663U (IgG) K15664U (IgM) K15665U (IgA)	Spot 1	BA.2.12.1	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 2	B.1.351; B.1.351.1	SARS-CoV-2 S1 RBD (K417N, E484K, N501Y)	Beta, Botswana
	Spot 3	A (WT)	SARS-CoV-2 Nucleocapsid	Wuhan A (WT)
	Spot 4	B.1.1.529; BA.1; BA.1.15	SARS-CoV-2 S1 RBD (G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 5	BA.2; BA.2.1; BA.2.2; BA.2.3; BA.2.5; BA.2.6; BA.2.7; BA.2.8; BA.2.10; BA.2.12	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 6	B.1.1.7	SARS-CoV-2 S1 RBD (N501Y)	Alpha
	Spot 7	AY.3; AY.4; AY.4.2; AY.5; AY.6; AY.7; AY.12; AY.14; B.1.617.2; B.1.617.2+Δ144	SARS-CoV-2 S1 RBD (L452R, T478K)	<b>Delta</b> sublineages, Vietnam
	Spot 8	BA.2.75	SARS-CoV-2 S1 RBD (G339H, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, Q498R, N501Y, Y505H)	Omicron sublineage
	Spot 9	BA.4; BA.5	SARS-CoV-2 S1 RBD (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)	Omicron sublineages
	Spot 10	A (WT)	SARS-CoV-2 S1 RBD	Wuhan A (WT)

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