

Supplementary Table S1: SARS-CoV-2 variants mutations introduced in the spike plasmid for production of SARS-CoV-2 pseudovirions for analysis in PsVNA.

SARS-CoV-2 variant	Mutations constructed in the spike plasmids
Omicron (BA.1/ B.1.1.529)	A67V, H69-70del, T95I, G142D, V143-145del, Y145D, N211del, 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 (BA.1.1)	A67V, del69 70, T95I, del142 144, Y145D, del211, 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 (BA.2)	T19I, delL24, delP25, delP26, A27S, 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 (BA.2.12.1)	BA.2 spike mutations + L452Q + S704L
Omicron (BA.3)	A67V, del69-70, del142-144, Y145D, del211, L212I, G339D, S371F, S373P, S375F, D405N, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K
Omicron (BA.4/BA.5)	T19I, delL24, delP25, delP26, A27S, 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

Table S2: Neutralization titers of convalescent plasma, IVIG and hCoV-2IG against SARS-CoV-2 variants*

	WA-1	Omicron BA.1	Omicron BA.1.1	Omicron BA.2	Omicron BA.2.12.1	Omicron BA.3	Omicron BA.4/BA.5
IVIG batches produced in 2019 prior to COVID-19							
2019-IVIG-1	10	10	10	10	10	10	10
2019-IVIG-2	10	10	10	10	10	10	10
2019-IVIG-3	10	10	10	10	10	10	10
2019-IVIG-4	10	10	10	10	10	10	10
2019-IVIG-5	10	10	10	10	10	10	10
2019-IVIG-6	10	10	10	10	10	10	10
2019-IVIG-7	10	10	10	10	10	10	10
2019-IVIG-8	10	10	10	10	10	10	10
2019-IVIG-9	10	10	10	10	10	10	10
2019-IVIG-10	10	10	10	10	10	10	10
2019-IVIG-11	10	10	10	10	10	10	10
2019-IVIG-12	10	10	10	10	10	10	10
2019-IVIG-13	10	10	10	10	10	10	10
2019-IVIG-14	10	10	10	10	10	10	10
IVIG batches produced in 2020							
2020-IVIG-1	10.0	10	10	10	10	10	10
2020-IVIG-2	10.0	10	10	10	10	10	10
2020-IVIG-3	10.0	10	10	10	10	10	10
2020-IVIG-4	20.7	10	10	10	10	10	10
2020-IVIG-5	28.2	10	10	10	10	10	10
2020-IVIG-6	48.9	10	10	10	10	10	10
2020-IVIG-7	51.0	10	10	10	10	10	10
2020-IVIG-8	43.5	10	10	10	10	10	10
2020-IVIG-9	49.9	10	10	10	10	10	10
2020-IVIG-10	30.5	10	10	10	10	10	10
2020-IVIG-11	62.1	10	10	10	10	10	10
2020-IVIG-12	38.2	10	10	10	10	10	10
2020-IVIG-13	25.8	10	10	10	10	10	10
2020-IVIG-14	26.4	10	10	10	10	10	10
Convalescent plasma batches produced from COVID-19 survivors collected in 2020							
2020-CP-1	102.3	10	10	10	10	10	10
2020-CP-2	153.2	25.7	10	10	10	10	10
2020-CP-3	127.9	10	10	10	10	10	10
2020-CP-4	143.7	10	10	10	10	10	10
2020-CP-5	10	10	10	10	10	10	10
2020-CP-6	159.9	10	10	10	10	10	10
2020-CP-7	69.2	10	10	10	10	10	10
2020-CP-8	67.5	10	10	10	10	10	10
2020-CP-9	215.7	10	10	10	10	10	10
2020-CP-10	2971.7	77.8	80.6	60.6	78.6	53.1	94.7
Convalescent plasma batches produced from COVID-19 survivors collected in 2022							
2022-CP-1	1341.1	911.1	892.4	515.4	293.2	535.9	98.6
2022-CP-2	3854.3	1768.0	1699.4	909.4	496.8	1060.3	235.5
2022-CP-3	646.6	512.4	527.9	256.4	114.5	275.1	46.9
2022-CP-4	937.8	648.6	690.2	366.3	239.3	384.2	81.7
2022-CP-5	435.0	319.7	287.8	157.1	69.0	161.4	26.1
2022-CP-6	1445.8	902.6	819.8	435.8	256.0	520.6	84.3
hCoV-2IG batches produced from COVID-19 convalescent plasma donors							
hCoV-2IG-1	4553.1	162.3	117.9	142.1	113.7	90.7	95.6
hCoV-2IG-2	2469.7	225.7	198.1	144.4	139.7	131.2	85.5
hCoV-2IG-3	3732.2	234.3	105.8	128.5	192.5	69.8	81.7
hCoV-2IG-4	2219.1	171.5	82.5	72.2	63.4	59.6	42.7
hCoV-2IG-5	7303.3	184.3	235	228.8	214.8	132.7	133.9
hCoV-2IG-6	1898.1	36.5	38.9	122	10.0	10.0	10.0
hCoV-2IG-7	6542.3	3405.1	1418.4	1117.9	751.4	706.8	753.4
hCoV-2IG-8	1742.7	195.3	162.4	118.8	121.8	85.9	51.0

* PsVNA titer Cut-off value: 1:10.