



DATA SHEET

REAGENT SARS-CoV-2 Omicron - lineage BA.2.86 (**infectious**)

REPOSITORY REFERENCE 101124

LOT NUMBER 03102023

DESCRIPTION Passage 3 Omicron BA.2.86 isolate grown in the Vero/hSLAM cell line. Originally isolated and passaged in the Vero/hSLAM cell line by UKHSA.

SEQUENCE In blue are BA.2.86 defining mutations (<https://outbreak.info>). All mutations are present. Details about the sequencing protocol is available on request.

Position (NC_045512.2)	Ref	Alt	Proportion	Gene	HGVSp
7	G	T	0.14	orf1ab	.
21	C	T	1	orf1ab	.
44	C	T	1	orf1ab	.
241	C	T	1	orf1ab	.
670	T	G	1	orf1ab	p.S135R
897	C	A	1	orf1ab	p.A211D
2790	C	T	1	orf1ab	p.T842I
3037	C	T	1	orf1ab	p.F924F
3431	G	T	1	orf1ab	p.V1056L
4184	G	A	1	orf1ab	p.G1307S
4321	C	T	1	orf1ab	p.A1352A
5120	T	A	0.06	orf1ab	p.Y1619N
6183	A	G	1	orf1ab	p.K1973R
7842	A	G	0.76	orf1ab	p.N2526S
8293	C	T	1	orf1ab	p.T2676T
8393	G	A	1	orf1ab	p.A2710T
9344	C	T	1	orf1ab	p.L3027F
9424	A	G	1	orf1ab	p.V3053V
9534	C	T	1	orf1ab	p.T3090I
10029	C	T	1	orf1ab	p.T3255I
10198	C	T	1	orf1ab	p.D3311D
10447	G	A	1	orf1ab	p.R3394R
10449	C	A	1	orf1ab	p.P3395H
11042	G	T	1	orf1ab	p.V3593F
11287	GTCTGGTTTT	G	0.87	orf1ab	p.S3675_F3677del
11296	T	G	1	orf1ab	p.F3677L
11394	C	T	0.07	orf1ab	p.T3710I
11463	T	C	0.06	orf1ab	p.M3733T
11750	C	T	0.1	orf1ab	p.L3829F
12789	C	T	1	orf1ab	p.T4175I
12815	C	T	0.61	orf1ab	p.L4184L
12880	C	T	1	orf1ab	p.I4205I
13197	C	T	0.27	orf1ab	p.T4311I
13339	T	C	1	orf1ab	p.N4358N

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Position (NC_045512.2)	Ref	Alt	Proportion	Gene	HGVSp
14408	C	T	1	orf1ab	p.L4715L
15714	C	T	1	orf1ab	p.S5150F
15756	T	A	1	orf1ab	p.L5164H
17410	C	T	1	orf1ab	p.Y5715Y
18163	A	G	1	orf1ab	p.T5966T
18492	A	G	1	orf1ab	p.H6076R
19955	C	T	1	orf1ab	p.L6564L
20055	A	G	1	orf1ab	p.K6597R
21608	G	GTCATGCCGCTGT	0.82	S	p.V16_N17insMPLF
21618	C	T	1	S	p.T19I
21622	C	T	1	S	p.T20T
21624	G	C	1	S	p.R21T
21632	TTACCCCTG	T	0.99	S	p.L24_A27delinsS
21711	C	T	0.24	S	p.S50L
21764	ATACATG	A	0.9	S	p.H69_V70del
21941	G	T	0.95	S	p.V127F
21987	G	A	1	S	p.G142D
21990	TTTA	T	0.96	S	p.Y145del
22030	GT	G	0.92	S	p.F157fs
22034	A	AG	0.99	S	p.V159fs
22193	AATT	A	0.97	S	p.N211_L212delinsI
22196	T	G	0.27	S	p.L212V
22200	T	G	1	S	p.V213G
22208	C	T	1	S	p.L216F
22295	C	A	1	S	p.H245N
22353	C	A	1	S	p.A264D
22556	A	G	1	S	p.I332V
22577	GG	CA	1	S	p.G339H
22629	A	C	0.99	S	p.K356T
22643	TGT	ACA	0.05	S	p.C361T
22674	C	T	1	S	p.S371F
22679	T	C	1	S	p.S373P
22686	C	T	1	S	p.S375F
22688	A	G	1	S	p.T376A
22770	G	A	0.97	S	p.R403K
22775	G	A	1	S	p.D405N
22786	A	C	1	S	p.R408S
22813	G	T	1	S	p.K417N
22882	T	G	0.99	S	p.N440K
22895	GT	CA	1	S	p.V445H
22898	G	A	1	S	p.G446S
22910	A	G	1	S	p.N450D
22916	CT	TG	1	S	p.L452W
22942	T	A	1	S	p.N460K
22992	G	A	1	S	p.S477N
22995	C	A	1	S	p.T478K
23005	T	A	1	S	p.N481K
23007	GTGT	G	0.89	S	p.V483del
23012	G	A	1	S	p.E484K
23018	TT	CC	1	S	p.F486P
23055	A	G	1	S	p.Q498R
23063	A	T	1	S	p.N501Y
23075	T	C	1	S	p.Y505H
23222	G	A	1	S	p.E554K
23271	C	T	1	S	p.A570V
23403	A	G	1	S	p.D614G
23423	C	T	1	S	p.P621S
23525	C	T	1	S	p.H655Y
23599	T	G	1	S	p.N679K



Position (NC_045512.2)	Ref	Alt	Proportion	Gene	HGVSp
23604	C	G	1	S	p.P681R
23854	C	A	1	S	p.N764K
23948	G	T	1	S	p.D796Y
24378	C	T	1	S	p.S939F
24424	A	T	1	S	p.Q954H
24469	T	A	1	S	p.N969K
24990	C	T	1	S	p.P1143L
25000	C	T	1	S	p.D1146D
25207	C	T	1	S	p.Y1215Y
25584	C	T	1	ORF3a	p.T64T
26060	C	T	0.92	ORF3a	p.T223I
26270	C	T	1	E	p.T9I
26529	G	C	1	M	p.D3H
26532	TCCAACGGTACTA	T	0.18	M	p.S4_I8delinsF
26577	C	G	1	M	p.Q19E
26610	A	G	0.69	M	p.T30A
26681	C	T	1	M	p.F53F
26709	G	A	1	M	p.A63T
26833	C	T	1	M	p.A104V
26858	C	T	1	M	p.F112F
27259	A	C	1	ORF6	p.R20R
27382	GAT	CTC	1	ORF6	p.D61L
27807	C	T	1	ORF8	.
28271	A	T	1	N	.
28311	C	T	1	N	p.P13L
28361	GGAGAACGCA	G	0.87	N	p.E31_S33del
28881	GG	AA	1	N	p.R203K
28883	G	C	1	N	p.G204R
28958	C	A	1	N	p.Q229K
29510	A	C	1	N	p.S413R
29733	CGAGGCCACGCGG AGTACGATCGAGT G	C	0.56	S	.

PROVIDED 0.5mL of cell culture supernatant

APPLICATIONS Infectivity assay, viral growth, neutralisation assay.

DEPOSITOR Original virus (passage 2) received from UKHSA, Porton Down, UK.

ACKNOWLEDGMENTS Acknowledgment for publications should read "The following reagent was obtained from the Centre For AIDS Reagents, NIBSC, UK: Omicron - lineage BA.2.86 (#101124), thanks to the contribution of Dr Naomi Coombes".

MATERIAL SAFETY SHEET

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Physical properties (at room temperature)	
Physical appearance	Yellow/Pink, liquid
Fire hazard	None
Chemical properties	
Stable	Yes
Corrosive:	No
Hygroscopic	No
Oxidising:	No
Flammable	No
Irritant:	No
Other: Live SARS-CoV-2. It is the responsibility of the end user to seek local biosafety approval for the storage and handling of the material in their workplace	
Handling: CAUTION - This preparation is not for administration to humans or animals in the human food chain. This preparation is hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective clothing, gloves and use within ACDP3 or higher facility.	
Toxicological properties	
Effects of inhalation:	Likelihood of Coronavirus infection
Effects of ingestion:	Likelihood of Coronavirus infection
Effects of skin absorption:	Not established, avoid contact with skin
Suggested First Aid	
Inhalation	Seek medical advice
Ingestion	Seek medical advice
Contact with eyes	Wash with copious amounts of water. Seek medical advice.
Contact with skin	Wash thoroughly with water.
Action on Spillage and Method of Disposal	
Spillage of contents should be taken up with absorbent material wetted with an appropriate virucidal agent. Rinse area with an appropriate virucidal agent followed by water.	
Absorbent materials used to treat spillage should be treated as biologically hazardous waste.	