



Pseudotyped LV-SARS-CoV-2 S-ΔG-GFP (Omicron variant, BA.4/BA.5) (COV-PSV48)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	SARS-CoV-2 Pseudovirus (Omicron, BA.4/BA.5) are used to test the ability of serum, antibodies, and drugs to neutralize the infectivity of SARS-CoV-2 spike protein. Pseudovirus display antigenically correct spike protein pseudotyped on replication-incompetent virus particles that contain a heterologous lentiviral (HIV) core. Pseudovirus are capable of a single round of infection and carry a genome that expresses GFP optical reporter gene upon infection. Pseudovirus are produced in HEK293T cells using three separate plasmids, encoding the spike protein (T19I, LPPA24S, HV69del, 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), a lentiviral gag polyprotein, and a reporter gene. Pseudovirus are created using a second-generation lentiviral system with components that are highly unlikely to recombine to produce a fully infectious virus (requiring 3 separate recombination events to do so). However, lentiviruses are capable of genomic integration and Pseudovirus are derived from biological materials so should be handled with caution within a BSL2 or enhanced BSL2 laboratory environment.
Specificity	SARS-CoV-2
Species	Virus
Size	1 mL
Storage	Store at -80°C. Multiple freeze/thaw cycles not recommended. When using the virus, transfer the virus from the -80° C refrigerator and melt it in an ice bath.
Ship	Frozen on dry ice

BACKGROUND

Keywords SARS-CoV-2; Coronavirus; SARS-CoV; SARS-CoV-2 Envelope Protein; SARS-CoV-2

Envelope glycoprotein; SARS-CoV-2 glycoprotein; Severe Acute Respiratory Syndrome;
Severe Acute Respiratory Syndrome-2; Severe Acute Respiratory Syndrome glycoprotein;
Severe Acute Respiratory Syndrome-2 glycoprotein; SARS-CoV-2 Pseudovirus; SARS-CoV
Pseudovirus; SARS Pseudovirus;
