



Pseudotyped VSV-SARS-CoV-2 S-ΔG-Luciferase (Omicron variant, XBB.1) (COV-PSV40)

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

PRODUCT INFORMATION

Product Overview

Pseudotyped VSV-SARS-CoV-2 S-ΔG-Luciferase (Omicron variant, XBB.1) encodes the antigenomic-sense (or positive-sense) RNA of a replicon-restricted recombinant vesicular stomatitis virus (rVSV) in which the glycoprotein (G) gene has been replaced with SARS-CoV-2 spike protein (T19I, Δ24-26, A27S, V83A, G142D, Δ144, H146Q, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460S, S477N, T478K, E484A, F486S, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K). Because the infectivity of Pseudotyped VSV-SARS-CoV-2 S-ΔG-Luciferase is restricted to a single round of replication, the pseudotypes can be handled using BSL-2 containment practices. The pseudotype VSV particles encode Luciferase together with the VSV nucleocapsid (N), phosphoprotein (P), glycoprotein (G), and large polymerase subunit (L) in their pVSV-ΔG vector. When the VSV pseudovirus infects the target cells, Luciferase expression is proportional to the number of cells that were infected.

Species	SARS-CoV-2
Applications	<p>Dilute the SARS-CoV-2 pseudotyped virus to 1.3E+04 TCID50/ml in complete DMEM. We recommended to use 50 µl of the diluted pseudotyped virus per 2E+04 Huh-7 cells for in vitro assay.</p> <p>Due to differences in cell status, the best infection conditions and MOI should be determined by the end user. The virus can be diluted with cell culture medium if needed.</p>
Size	2×100 µl, 5×100 µl, 10×100 µl
Storage	<p>Store at -80°C. Multiple freeze/thaw cycles not recommended.</p> <p>When using the virus, transfer the virus from the -80° C refrigerator and melt it in an ice bath.</p>
Ship	Frozen on dry ice