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## **Data Sheet**

### ***Spike (SARS-CoV-2) Lentivirus***

**Catalog #: 78010**

#### **Product Description**

Cell entry of SARS-CoV-2 depends on the binding of viral spike protein to cellular receptor ACE2. The SARS-CoV-2 Spike Lentivirus are replication incompetent, HIV-based, VSV-G pseudotyped lentiviral particles that are ready to be transduced into almost all types mammalian cells, including primary and non-dividing cells. The particles contain the full length SARS-CoV-2 spike gene (QHD43416.1) driven by an EF1a promoter (Figure 1).

#### **Application**

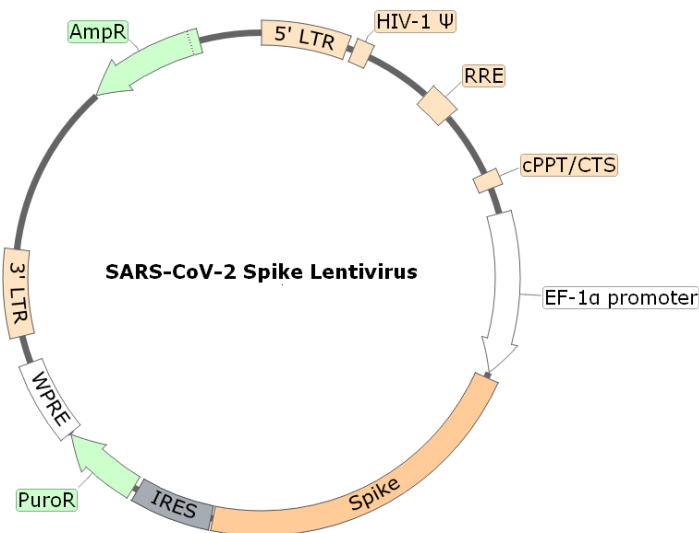
1. Transient expression of full length SARS-CoV-2 spike in target cells.
2. Generation of stable cell line expressing SARS-CoV-2 spike with puromycin selection.

#### **Formulation**

The lentiviruses were produced from HEK293T cells in medium containing 90% DMEM + 10% FBS.

#### **Titer**

The titer will vary with each lot; the exact value is provided with each shipment.



**Figure 1. Schematic of the lenti-vector used to generate the SARS-CoV-2 spike lentivirus**

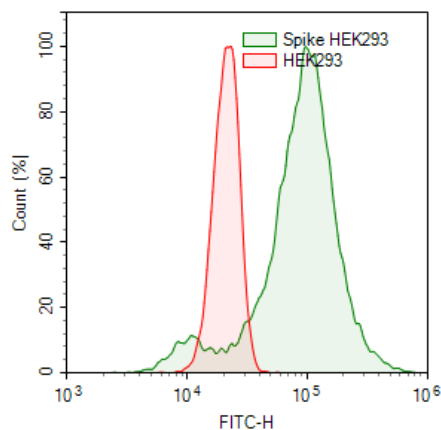
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### Storage

Lentiviruses are shipped with dry ice. For long term storage, it is recommended to store the virus at  $-80^{\circ}\text{C}$ . Avoid repeated freeze-thaw cycles. Titers can drop significantly with each freeze-thaw cycle.

### Biosafety

None of the HIV genes (gag, pol, rev) will be expressed in the transduced cells, as they are expressed from packaging plasmids lacking the packing signal. Although the pseudotyped lentiviruses are replication-incompetent, they require the use of a Biosafety Level 2 facility. BPS recommends following all local federal, state, and institutional regulations and using all appropriate safety precautions.



**Figure 2. The expression of SARS-CoV-2 Spike protein in HEK293 cells transduced with SARS-CoV-2 spike lentivirus.** Appropriate 500,000 cells/well (6-well culture plate) were transduced with 2,000,000 TU/well SARS-CoV-2 spike lentivirus in the presence of  $5\ \mu\text{g/ml}$  of polybrene. After 52 hours of transduction, the transduced cells were selected in Growth Medium 1N (BPS Bioscience, #79801) which contains  $0.5\ \mu\text{g/ml}$  puromycin. The spike expression in the puromycin-resistant cell pool was analyzed by intracellular flow cytometry staining using anti-Spike S1 primary antibody (BPS Bioscience, #100715-1) and FITC-conjugated goat anti-human IgG secondary antibody (ThermoFisher, #H10101C). Red, HEK293 parental cells; Green, HEK293 cells transduced with SARS-CoV-2 spike lentivirus.

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## Sequence

MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVVYYPDKVFRSSVLHSTQDLFLPFFSNVTW  
FHAIHVSNGTNGTKRFDNPVLPFNDGVYFASTEKSNIRGWIFGTTLDSTQSLNATNVVVIKV  
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VFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQTLALHRSYLTGDSSSGW  
TAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQP  
TESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSASFSTFKCYGVSPTKL  
NDLCFTNVYADSFVIRGDEVQRQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNDLSDKVGNYN  
YLYRFRKSNLKPFRDISTEIQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVL  
SFELLHAPATVCGPKKSTNLVKNKCVNFNGLTGTGVLTESNKKFLPFQFGRDIADTTDAVR  
DPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSN  
VFQTRAGCLIGAEHVNSYECDIPIGAGICASYQTQTNPRRARSVASQSIIAYTMSLGAENSV  
YSNSIAIPTNFTISVTTEILPVSMTKTSVDCTMYICGDSTECNLLLQYGSFCTQLNRALTGI  
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FVSNGTHWFVTQRNFYEPQIITDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKN  
HTSPDVDLGDIGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEYIKWPWYIWLGFIAGL  
IAIVMVTIMLCCMTSCCCLKGCCSCGSCCKFDEDDSEPVKGVKLHYT

## Related Products

| <b>Product</b>   | <b>Cat. #</b> | <b>Size</b> |
|--|---------------|-------------|
| Spike Pseudotyped Lentivirus (Luciferase Reporter)           | 79942         | 500 µl x2   |
| Bald Lentiviral Pseudovirion (Luciferase Reporter)           | 79943         | 500 µl x2   |
| Spike Pseudotyped Lentivirus (eGFP Reporter)                 | 79981         | 500 µl x2   |
| Bald Lentiviral Pseudovirion (eGFP Reporter)                 | 79987         | 500 µl x2   |
| Spike Pseudotyped Lentivirus (Luciferase-eGFP Dual Reporter) | 79982         | 500 µl x2   |
| Bald Lentiviral Pseudovirion (Luciferase-eGFP Dual Reporter) | 79988         | 500 µl x2   |
| eGFP Lentivirus  | 79979         | 500 µl x2   |
| Firefly Luciferase-eGFP Lentivirus                           | 79980         | 500 µl x2   |
| Negative Control Lentivirus                                  | 79578         | 500 µl x2   |
| Renilla Luciferase (Rluc) Lentivirus                         | 79565         | 500 µl x2   |
| Firefly Luciferase (Fluc) Lentivirus                         | 79692         | 500 µl x2   |
| ACE2 Lentivirus  | 79944         | 500 µl x2   |

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