

COVID 19 Pseudoviral Particles, 222V Coronavirus Pseudovirus | COVID-19 pseudovirus

SARS-CoV-2 Pseudoviral Particles, 222V

CATALOG #
AAA62221

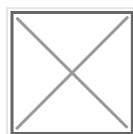
PRODUCT SYNONYMS

COVID 19 Pseudoviral Particles; 222V Coronavirus; SARS-CoV-2 Pseudoviral Particles; 222V; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Pseudoviral Particles; COVID-19 pseudovirus

PRODUCT SPECIFICATIONS

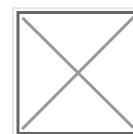
Features	• Robust: Excellent signal to noise (basal) ratio • Easy to use: Amenable to HTS format (96-well, 384-well and 1536-well format)
Contents	10 ml (2 tubes, 5 mL/tube), for 2 multi-well plates
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on dry ice. Store at -70°C Dry Ice Shipment: Extra charge fee may add to your shipping cost as dry ice is required to ship this product. Shipping Note: Product is available for shipment in the United States, Canada and European countries. Please inquire for shipment to other countries.

IMAGES



Application Data

Figure 2. Pseudoviral Particle (PP) Infection Assays. (-):the negative control (Cat.# SARS2-CoV-2-614G-A222V: the PP pseudotyped with the 222V 614G spike protein (Cat.# AAA62221).



Application Data

Figure 1. Illustration of the replication-deficient MLV particle pseudotyped with SARS-CoV-2 Spike protein

ADDITIONAL INFORMATION

Related Product Information for COVID-19 pseudovirus

It has been known that SARS coronavirus 2 (SARS-CoV-2) uses human ACE2 as the entry receptor and human proteases as the entry activators. The virus surface spike (S) protein mediates SARS-CoV-2 entry into cells. To fulfill its function, SARS-CoV-2 spike binds to the receptor human ACE2 (hACE2) through its receptor-binding domain (RBD) and is proteolytically activated by human proteases.

Our SARS-CoV-2 Pseudoviral Particles are replication-deficient MLV pseudotyped with the SARS-CoV-2 spike protein. They also contain the ORF for firefly luciferase as a reporter. They establish a pseudovirus entry assay for SARS-CoV-2 as the S protein mediated cell entry can be conveniently measured via the luciferase reporter activity. This pseudovirus assay isolates the SARS-CoV-2 viral entry from other steps of the viral infection cycle.

A new SARS-CoV-2 strain with an amino acid change at position 222 from Ala to Val besides the change at position 614 from Asp to Gly in the viral S protein predominated over time in locales where it was found. To support the study of this new SARS-CoV-2 strain, we established the SARS-CoV-2-614G-A222V Pseudoviral Particles with the spike protein carrying the 222V and 614G genotype (Genbank Accession #QHD43416.1, p.222A->V, p.614D->G)

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/covid-19-pseudovirus/covid-19-pseudoviral-particles-222v-coronavirus/62221>