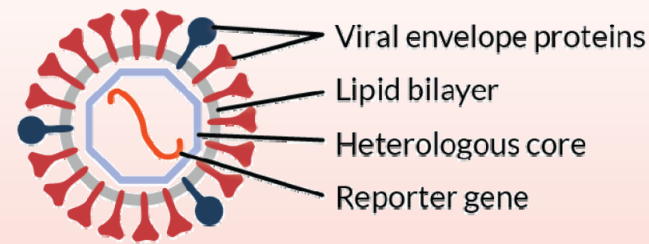
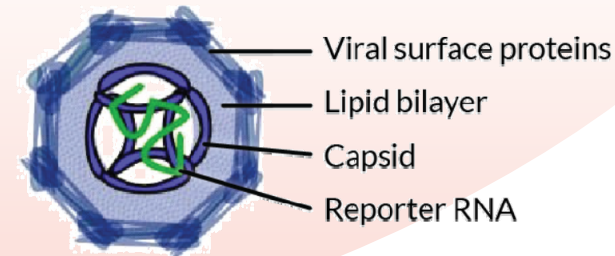


## Reporter Virus Particle (RVP) Neutralizing Antibodies, Cell Lines and Controls

Pseudoviral particle



Pseudoinfective virus-like particle



**Product Offerings:** The Most Extensive Catalog of Pseudotyped & Virus-like Particles

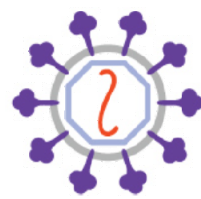


Coronavirus

SARS-CoV-2  
• Many variants  
SARS-CoV-1  
MERS-CoV  
Endemic CoVs



Influenza A & B  
Seasonal & Pandemic



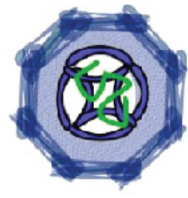
Filovirus  
Ebola & Marburg



Arenavirus  
Lassa



Henipavirus

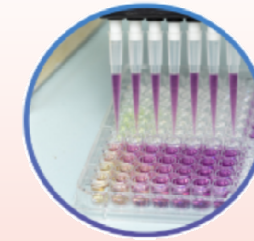


Flavivirus

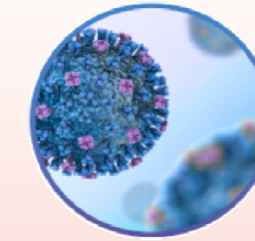
Zika  
Dengue  
• Serotypes 1-4  
Yellow Fever  
• Asibi & 17D



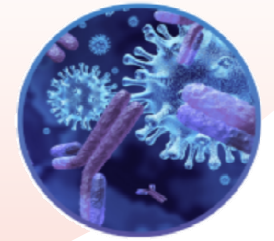
Custom



**Reporter Virus Particles**  
Pseudotyped viral particles for safe, easy neutralization assays



**TiterSafe**  
Ready-to-use influenza reagent for easier hemagglutination inhibition (HAI) assays



**Neutralization Assay Services**  
For antibody developers who need neutralization data

The most extensive catalog of Reporter Virus Particles (RVPs). Reporter Virus Particles (RVPs) are replication-incompetent pseudovirus particles that enable safe (BSL-2), easy, and high-throughput viral infectivity and neutralization assays using standard detection instrumentation. We also offer target cell lines, neutralizing antibodies, and control viral particles to use in your RVP research.

focused  
solutions  
can produce

great

pharmaceuticals

**Virology Reagents**

- Reporter Virus Particles
- TiterSafe
- Neutralization Assay Services

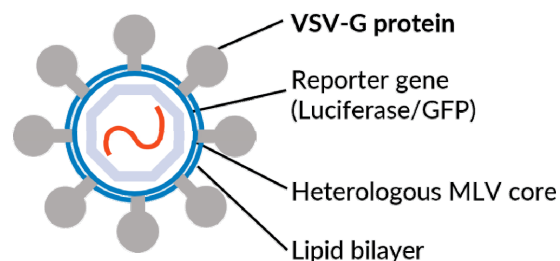
Trusted by 100+ Laboratories for R&D and Clinical Trials



We offer monoclonal antibodies that are validated as neutralization controls for RVP assays.

| Cat No.     | Description                                                                            | Isotype    | Immunogen                              | Applications             |
|-------------|----------------------------------------------------------------------------------------|------------|----------------------------------------|--------------------------|
| IM-CoV2-F06 | SARS-CoV-2 broadly neutralizing antibody (including first-generation Omicron variants) | Human IgG1 | Wuhan-Hu-1 Spike RBD                   | Neutralization assay, FC |
| IM-CoV2-G06 | SARS-CoV-2 broadly neutralizing antibody (including Delta)**                           | Human IgG1 | Wuhan-Hu-1 Spike RBD                   | Neutralization assay, FC |
| IM-CKV063   | Chikungunya neutralizing antibody                                                      | Human IgG1 | Natural infection, MAbs bind E2        | Neutralization assay, FC |
| IM-ZKV081   | Zika neutralizing antibody                                                             | Human IgG1 | Natural infection, MAbs bind E protein | Neutralization assay, FC |

### Negative Control RVPs with VSV



VSV RVPs function as a control for RVP experiments to differentiate specific versus non-specific effects on neutralization

- RVPs display VSV-G protein
- Compatible for use with all target cells including ACE2-HEK 293T
- Available with luciferase or GFP reporter

| Cat No.  | RVP               | Strain  |
|----------|-------------------|---------|
| RVP-1002 | VSV with MLV core | Indiana |

| Cat No         | Product Particulars                                                                        | Pack Size |
|----------------|--------------------------------------------------------------------------------------------|-----------|
| RVP-702 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - D614G B.1, 20A                              | 1 ml      |
| RVP-701 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - Wuhan-Hu-1                                  | 1 ml      |
| RVP-768 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - B.1.1.529.1, BA.1 - Omicron                 | 1 ml      |
| RVP-771 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - B.1.1.529.1.1, BA.1.1 - Omicron             | 1 ml      |
| RVP-770 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - B.1.1.529.2, BA.2 - Omicron                 | 1 ml      |
| RVP-775 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - B.1.1.529.2.12.1, BA.2.12.1 - Omicron       | 1 ml      |
| RVP-776 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - B.1.1.529.2.75, BA.2.75 - Omicron           | 1 ml      |
| RVP-794 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - BA.2.86 - Omicron                           | 1 ml      |
| RVP-774 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - B.1.1.529.4/5, BA.4/BA.5 - Omicron          | 1 ml      |
| RVP-777 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - B.1.1.529.4.6, BA.4.6 - Omicron             | 1 ml      |
| RVP-779 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - BF.7 - Omicron                              | 1 ml      |
| RVP-785 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - BQ.1 - Omicron                              | 1 ml      |
| RVP-782 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - BQ.1.1 - Omicron                            | 1 ml      |
| RVP-787 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - CH.1.1 - Omicron                            | 1 ml      |
| RVP-792 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - EG.5 - Omicron                              | 1 ml      |
| RVP-791 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - EG.5.1 - Omicron                            | 1 ml      |
| RVP-793 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - FL.1.5.1 - Omicron                          | 1 ml      |
| RVP-795 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - HV.1 - Omicron                              | 1 ml      |
| RVP-796 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - JN.1 - Omicron                              | 1 ml      |
| RVP-780 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - XBB.1 - Omicron                             | 1 ml      |
| RVP-786 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - XBB.1.5/XBB.1.9.1 - Omicron                 | 1 ml      |
| RVP-789 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - XBB.1.16 - Omicron                          | 1 ml      |
| RVP-790 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - XBB.2.3 - Omicron                           | 1 ml      |
| RVP-788 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Variant - XBF - Omicron                               | 1 ml      |
| RVP-706 (G/L)  | SARS-CoV-2 Reporter Virus Particle - UK variant B.1.1.7, 20I/501Y.V1 - Alpha               | 1 ml      |
| RVP-707 (G/L)  | SARS-CoV-2 Reporter Virus Particle - South African variant B.1.351, 20C/501Y.V2 -          | 1 ml      |
| RVP-708 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Brazilian variant P.1, 20J/501Y.V3 - Gamma            | 1 ml      |
| RVP-713 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Californian variant B.1.427/B.1.429, 20C/452R - Epsi- | 1 ml      |
| RVP-723 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Nigerian/European variant B.1.525, 20A/484K - Eta     | 1 ml      |
| RVP-724 (G/L)  | SARS-CoV-2 Reporter Virus Particle - South African variant Δ3 B.1.351, 20H/501Y.V2 - Beta  | 1 ml      |
| RVP-725 (G/L)  | SARS-CoV-2 Reporter Virus Particle - US variant N679S -                                    | 1 ml      |
| RVP-726 (G/L)  | SARS-CoV-2 Reporter Virus Particle - New York variant B.1.526, 20C/484K - Iota             | 1 ml      |
| RVP-727 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Indian variant B.1.617, RBD mutations only ("double   | 1 ml      |
| RVP-736 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Brazilian variant P.2 - Zeta                          | 1 ml      |
| RVP-763 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Indian variant B.1.617.2 - Delta                      | 1 ml      |
| RVP-767 (G/L)  | SARS-CoV-2 Reporter Virus Particle - Columbia, B.1.621 - Mu                                | 1 ml      |
| RVP-801 (G/L)  | Coronavirus - SARS-CoV-1 - Urbani                                                          | 1 ml      |
| RVP-901 (G/L)  | Coronavirus - MERS-CoV HCoV-EMC (GFP only) - HCoV-EMC                                      | 1 ml      |
| RVP-920 (G/L)  | Coronavirus - 229E - DQ243963.1                                                            | 1 ml      |
| RVP-940 (G/L)  | Coronavirus - NL63 - BBL54109                                                              | 1 ml      |
| RVP-1002 (G/L) | Negative Control Report Virus Particle - VSV with MLV core - Indiana strain                | 1 ml      |
| RVP-1201 (G/L) | Influenza Reporter Virus Particle - Influenza A (H5N1) - Indonesia/5/05                    | 1 ml      |
| RVP-1202 (G/L) | Influenza Reporter Virus Particle - Influenza A (H3N2) - Darwin/9/2021                     | 1 ml      |
| RVP-1204 (G/L) | Influenza Reporter Virus Particle - Influenza A (H7N9) - Suzhou/3/2013                     | 1 ml      |
| RVP-1205 (G/L) | Influenza Reporter Virus Particle - Influenza A (H5N1) - Vietnam/1203/2004                 | 1 ml      |
| RVP-1207 (G/L) | Influenza Reporter Virus Particle - Influenza A (H5N1) - Vietnam/1194/2004                 | 1 ml      |
| RVP-1208 (G/L) | Influenza Reporter Virus Particle - Influenza A (H5N1) - turkey/Turkey/1/2005              | 1 ml      |
| RVP-1209 (G/L) | Influenza Reporter Virus Particle - Influenza A (H5N8) - Astrakhan/3212/2020               | 1 ml      |
| RVP-1210 (G/L) | Influenza Reporter Virus Particle - Influenza A (H7N9) - Guangdong/17SF003/2016            | 1 ml      |
| RVP-1211 (G/L) | Influenza Reporter Virus Particle - Influenza A (H1N1) - Wisconsin/588/2019                | 1 ml      |
| RVP-1212 (G/L) | Influenza Reporter Virus Particle - Influenza A (H3N2) - Darwin/6/2021                     | 1 ml      |
| RVP-1213 (G/L) | Influenza Reporter Virus Particle - Influenza A (H1N1) - Wisconsin/67/2022                 | 1 ml      |

### Non-Replicative Virus Particles for Safe Neutralization Assays:

Integral Molecular Reporter Virus Particles (RVPs) are for scientists working to develop vaccines, antibodies, and other countermeasures against the world's deadliest and most challenging viruses.

RVPs are non-replicative virus-like particles with surface proteins from a diverse range of viruses. They are a safe, ready-to-use substitute for live virus, ideal for infectivity and neutralization assays.

| Cat No         | Product Particulars                                                                        | Pack Size |
|----------------|--------------------------------------------------------------------------------------------|-----------|
| RVP-1215 (G/L) | Influenza Reporter Virus Particle - Influenza A (H3N2) - Massachusetts/18/2022             | 1 ml      |
| RVP-1216 (G/L) | Influenza Reporter Virus Particle - Influenza A (H3N2) - Thailand/8/2022                   | 1 ml      |
| VP-1301 (G/L)  | Influenza Reporter Virus Particle - Influenza B (Victoria) - Washington/02/2019            | 1 ml      |
| RVP-1302 (G/L) | Influenza Reporter Virus Particle - Influenza B (Victoria) - Austria/1359417/2021          | 1 ml      |
| RVP-1303 (G/L) | Influenza Reporter Virus Particle - Influenza B (Yamagata) - Phuket/3073/2013              | 1 ml      |
| RVP-1401 (G/L) | Filovirus Reporter Virus Particle - Ebola - Mayinga/76                                     | 1 ml      |
| RVP-1501 (G/L) | Filovirus Reporter Virus Particle - Marburg - Uganda 2007                                  | 1 ml      |
| RVP-1801 (G/L) | Henipavirus Reporter Virus Particle - Nipah - Malaysia 2008                                | 1 ml      |
| RVP-1901 (G/L) | Arenavirus Reporter Virus Particle - Lassa - Josiah                                        | 1 ml      |
| RVP-1101 (G/L) | Arbovirus Reporter Virus Particle - Chikungunya Virus - S27                                | 1 ml      |
| RVP-101 (G/L)  | Arbovirus Reporter Virus Particle - Dengue Virus 1 - 16007                                 | 1 ml      |
| RVP-201 (G/L)  | Arbovirus Reporter Virus Particle - Dengue Virus 2 - 16681                                 | 1 ml      |
| RVP-301 (G/L)  | Arbovirus Reporter Virus Particle - Dengue Virus 3 - 16562                                 | 1 ml      |
| RVP-401 (G/L)  | Arbovirus Reporter Virus Particle - Dengue Virus 4 - TVP360                                | 1 ml      |
| RVP-601 (G/L)  | Arbovirus Reporter Virus Particle - Zika Virus - SPH2015                                   | 1 ml      |
| RVP-1601 (G/L) | Arbovirus Reporter Virus Particle - Yellow Fever Virus - Asibi                             | 1 ml      |
| RVP-1603 (G/L) | Arbovirus Reporter Virus Particle - Yellow Fever Virus - 17D                               | 1 ml      |
| RVP-1650 (G/L) | Arbovirus Reporter Virus Particle - West Nile Virus - NY99                                 | 1 ml      |
| HAP-1302       | TiterSafe HAI Reagent - Influenza B (Victoria) - Austria/1359417/2021                      | 1 ml      |
| HAP-1303       | TiterSafe HAI Reagent - Influenza B (Yamagata) - Phuket/3073/2013                          | 1 ml      |
| HAP-1205       | TiterSafe HAI Reagent - Influenza A (H5N1) - Vietnam/1203/2004                             | 1 ml      |
| HAP-1212       | TiterSafe HAI Reagent - Influenza A (H3N2) - Darwin/6/2021                                 | 1 ml      |
| HAP-1213       | TiterSafe HAI Reagent - Influenza A (H1N1) - Wisconsin/67/2022                             | 1 ml      |
| HAP-1214       | TiterSafe HAI Reagent - Influenza A (H5N1) - American Wigeon/SC/22-000345-001/2021         | 1 ml      |
| HAP-1215       | TiterSafe HAI Reagent - Influenza A (H3N2) - Massachusetts/18/2022                         | 1 ml      |
| HAP-1216       | TiterSafe HAI Reagent - Influenza A (H3N2) - Thailand/8/2022                               | 1 ml      |
| IM-CoV2-F06-1  | Neutralizing Antibody - broadly - SARS-CoV-2 (including first-generation Omicron variants) | 100 ug    |
| IM-CoV2-F06-2  | Neutralizing Antibody - broadly - SARS-CoV-2 (including first-generation Omicron variants) | 500 ug    |
| IM-CoV2-F06-3  | Neutralizing Antibody - broadly - SARS-CoV-2 (including first-generation Omicron variants) | 1000 ug   |
| IM-CoV2-G06-1  | Neutralizing Antibody - broadly - SARS-CoV-2 (including Delta)                             | 100 ug    |
| IM-CoV2-G06-2  | Neutralizing Antibody - broadly - SARS-CoV-2 (including Delta)                             | 500 ug    |
| IM-CoV2-G06-3  | Neutralizing Antibody - broadly - SARS-CoV-2 (including Delta)                             | 1000 ug   |
| IM-CKV063-1    | Neutralizing Antibody - Chikungunya                                                        | 100 ug    |
| IM-CKV063-2    | Neutralizing Antibody - Chikungunya                                                        | 500 ug    |
| IM-CKV063-3    | Neutralizing Antibody - Chikungunya                                                        | 1000 ug   |
| IM-ZKV081-1    | Neutralizing Antibody - Zika                                                               | 100 ug    |
| IM-ZKV081-2    | Neutralizing Antibody - Zika                                                               | 500 ug    |
| IM-ZKV081-3    | Neutralizing Antibody - Zika                                                               | 1000 ug   |
| C-HA102        | Stable Cell Line - SARS-CoV-2 RVPs - hsACE2                                                | 2 vials   |
| C-BD101        | Stable Cell Line - ZIKV, DENV RVPs - hsDC-SIGN                                             | 2 vials   |