Advance & Accelerate COVID-19 Research

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Produced In-house
- Made in the USA at our San Diego, California laboratory
- Get customized, personal support directly from the source

Broad Portfolio
- Full range of solutions for drug discovery, diagnostics, and vaccine development
- Cell lines, lentiviruses, proteins, screening assay kits, & antibodies
- Products in a variety of related categories including immunotherapy & proteases

Services Available
- CRISPR, screening & profiling, & custom development
- Custom cell line development services, custom knock-out and knock-in cell lines
- Unique panels of assays for evaluation of lead compounds

Committed to Excellence
- ISO 9001:2015-certified Quality Management System
Coronavirus Variants
Mutants, Variants, and WT Products to Research COVID-19

We have developed a collection of recombinant proteins, assay kits, pseudovirions, lentiviruses, and antibodies to help intensify research on emerging variants and their effects on pathogenesis, therapeutic drugs, and vaccines.
## Coronavirus Products
### Tools to Investigate COVID-19

### PROTEINS

- SARS-CoV-2 | SARS-CoV | Human | Monkey
- Worldwide Variants | Mutants | EU and Biotin-Labeled | Various Tags
- 3CL Protease | ACE2 | Spike (S1, RBD) | PLPro | Nucleocapsid | Others

### ASSAY KITS

- Convenient activity assay kits for screening enzyme inhibitors and target molecules impacting SARS-CoV-2 pathologic mechanisms
- Validation made simple with multiple detection formats
- Chemiluminescent | Colorimetric | Fluorogenic | TR-FRET

### CELL LINES

- Utilize cell lines for binding assays, flow cytometry, and for screening antibodies
- Multiple host cell line options: HeLa, HEK293, CHO, and Vero E6
- Screen for antibodies against human ACE2, for competition binding studies with ACE2 soluble protein, and to determine the Spike-ACE2 blocking effects of neutralizing antibodies

### ANTIBODIES

- Binding studies | FACS | ELISA | Neutralization
- Anti-Spike | Anti-Nucleocapsid | IgG & IgM unconjugated | Others
# Coronavirus Products

## Lentiviruses

### Options

<table>
<thead>
<tr>
<th>Reporters</th>
<th>Cell Types</th>
<th>Variants</th>
<th>Advantages</th>
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<tbody>
<tr>
<td>eGFP</td>
<td>Hela</td>
<td>B.1.1.7</td>
<td>Off-the-shelf</td>
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<td>Luciferase</td>
<td>CHO</td>
<td>B.1.351</td>
<td>BSL2 safety level</td>
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<td>Dual (Luc &amp; eGFP)</td>
<td>HEK293</td>
<td>P.1</td>
<td>Multiple mutants</td>
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<td></td>
<td>Vero E6</td>
<td>B.1.429</td>
<td>Reporter cell lines</td>
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### Uses and Advantages

- Study the mechanism of viral transduction
- Screen for neutralizing antibodies for SARS-CoV-2 Spike and ACE2
- ACE2, Spike, TMRPSS2, and Bald lentiviruses available with different reporters
- Wild-type and variant Spike protein used as ENV for lentivirus infection
- Reporter eGFP and/or Luciferase under the control of a CMV promoter (constitutive expression)
- Bald virus control: no VSV-G or Spike

### Example Data

*Splice (SARS-CoV-2) Pseudotyped Lentivirus (Luc-eGFP Dual Reporter) - BPS Bioscience #79982*

![Transduction of ACE2-HEK293 Cells Monitored by eGFP Expression](image)

![Transduction of ACE2-HEK293 Monitored by Luciferase Activity](image)
BPS Bioscience has developed innovative assays and screening services for investigating potential COVID-19 antiviral drugs. Identify antibodies or small molecule inhibitors that bind to either viral or target proteins.

- Screening and Profiling Services
- Assay Design & Optimization
- Validation Studies

### Assay Formats

<table>
<thead>
<tr>
<th>Type of Assay</th>
<th>Example Protocol</th>
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<tbody>
<tr>
<td>Chemiluminescent</td>
<td>ACE2, Spike + Biotin, Strep - HRP, HRP Substrate</td>
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<tr>
<td>Colorimetric</td>
<td>Spike, ACE2 + Biotin, Strep - HRP, HRP Substrate</td>
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<td>Colorimetric IgG Detection</td>
<td>Spike, Serum Sample, Anti-Fc - HRP, HRP Substrate</td>
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<tr>
<td>TR-FRET</td>
<td>ACE2-EU Dye Labeled Acceptor, Spike - Biotin, Blocking Compound</td>
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<tr>
<td>Fluorogenic</td>
<td>ACE2 or 3CL, Inhibitor, Fluorogenic Substrate</td>
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<tr>
<td>Homogeneous</td>
<td>Digoxigenin-labeled RNA Duplex, ATP-Biotin, Acceptor &amp; Donor Beads</td>
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Screening & Profiling
Cell-Based Assays

Custom Assay Development & Screening Services

- Cell-based assay services are available using the SARS-CoV-2 Spike-pseudovirus and the ACE2-HEK293 cell line or the TMPRSS2 - Vero E6 cell line
- Screen for neutralization of antibodies/small molecules which target the interactions between Spike and ACE2/TMPRSS2
- Custom development of cell-based assays available for screenings services

Transduce

ACE2 Cell Line or TMRPSS2 Cell Line

Using

Spike Lentivirus

To Screen For

Neutralizing Antibodies or Small Molecules

Example Data

Neutralization Assay by Anti-ACE2 Antibody

Inhibition of Pseudovirus Infection by Camostat in TMPRSS2-Vero E6 Cell Line

Neutralizing Assay by Anti-SARS-CoV-2 Spike Antibody
CRISPR-Cas9 & Cell Line Development
Knock-out or Knock-in Cell Lines

- Introduce a specific point mutation or add a tag to your endogenous gene of interest
- Knock-out your gene(s) of interest for mechanistic or screening studies
- Customized lentiviruses can be used to quickly generate knock-down or knock-out cell pools

**Knock-out or Knock-in**

```
 Cas9
   \---> sgRNA
      \---> Cleavage
         \---> DNA
             \---> Donor DNA
                 \---> Homology Directed Repair
                         \---> Non-homologous End Joining
                                             \---> Insertion/Deletion
```

**Project Milestones**

1. **Molecular Biology**
   We will synthesize three short guide RNA sequences for knock-out cell lines. We can also design the HDR template for knock-in cell lines.

2. **CRISPR Transfection**
   Depending on the cell-type, cells can be transfected via electroporation, liposome-based transfection, or viral infection.

3. **Limiting Dilution**
   Based upon the results of the initial pool testing, the cell pool will be clonally diluted and the clones will be expanded.

4. **Confirmation of Expression**
   The expression level of the gene of interest will be analyzed via Western Blot or FACS.

5. **Confirmation**
   Genes showing loss of expression will be analyzed through genomic sequencing. For knock-in mutations, functional validation is available.
Protein Binding Studies
Analytics with BLI Services

BPS Bioscience offers Bio-Layer Interferometry (BLI) services to evaluate and analyze protein interactions. Label free analysis is a critical research method to determine the binding kinetic parameters of compounds. These studies are of key importance for pharmaceutical and biotechnological preclinical drug development.

Utilize BPS Bioscience's BLI services for deeper insight into your protein studies through measuring binding kinetics, steady state affinity, and through target validation. We will provide accurate and sensitive kinetic studies in a timely manner to further progress your research.

**BLI Binding Analysis**

![Figure 1: BLI binding analysis of polyclonal human anti-ACE2 antibody to immobilized ACE2-His (BPS Bioscience #11003) via anti-His probes. Kd = 144 nM.](image1)

![Figure 2: BLI binding analysis of SARS-CoV-2 Spike (RBD) to immobilized ACE2-His (BPS Bioscience #11003) via anti-His probes. Kd = 1.2 nM.](image2)

**Available Services**

- Protein immobilization
- Binding affinity measurements
- Data fitting and reporting
- Access to BPS Bioscience’s extensive protein portfolio of target proteins
- Detailed final report includes all data, methods, and results
## Antibodies, Assay Kits

### Product Listing

<table>
<thead>
<tr>
<th>Antibodies</th>
<th>Catalog#</th>
<th>Size</th>
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<tbody>
<tr>
<td>3CL Protease Antibody (Rabbit)</td>
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<td>100 µg</td>
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<tr>
<td>Anti-Human IgG, Unconjugated Antibody</td>
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<td>100 µg</td>
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<tr>
<td>Anti-Human IgM, Unconjugated Antibody</td>
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<td>Anti-Nucleocapsid Antibody (SARS-CoV-2)</td>
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<td>Anti-Spike S1 Monoclonal Antibody (SARS-CoV-2)</td>
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<td>PLPro Antibody (SARS-CoV)</td>
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<td>Spike Neutralizing Antibody (Clone G10xA1) (SARS-CoV-2)</td>
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<td>Spike Neutralizing Antibody (Clone G10xA5) (SARS-CoV-2)</td>
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<td>Spike S1 Neutralizing Antibody (SARS-CoV-2) (Clone: 414-1)</td>
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<td>Spike S1 Neutralizing Antibody (SARS-CoV-2) (Clone: 414-2)</td>
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<td>Spike S1 Neutralizing Antibody (VHH), Fc-fusion (IgG1), Avi-Tag (SARS-CoV-1)</td>
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<td>Spike S1 Neutralizing Antibody (VHH), Fc-fusion (IgG1), Avi-Tag (SARS-CoV-1), Biotin-labeled</td>
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<td>Spike Trimer Neutralizing Antibody (B.1.617.2, B.1.617.2.1, WT and B.1.1.7 Variants) (Clone hC-A11) (SARS-CoV-2)</td>
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<td>3CL Protease, MBP-tagged (SARS-CoV-2) Assay Kit</td>
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<td>3CL Protease, Untagged (SARS-CoV-2) Assay Kit</td>
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<td>3x ACE2 Inhibitor Screening Assay Kit</td>
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<td>ACE2: Spike S1 RBD (SARS-CoV-2) Inhibitor Screening Assay Kit</td>
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<td>ACE2: Spike S1 RBD, Mouse Fc-fusion (SARS-CoV-2) Inhibitor Screening Colorimetric Assay Kit</td>
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<td>ACE2: Spike S1-Biotin (SARS-CoV-2) Inhibitor Screening Assay Kit</td>
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<td>Cathepsin B Inhibitor Screening Assay Kit</td>
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<td>Cathepsin L Inhibitor Screening Assay Kit</td>
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<td>Furin Protease Assay Kit</td>
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<td>IL-6:IL-6R Inhibitor Screening Assay Kit</td>
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<td>Papain-like Protease (SARS-CoV-2) Assay Kit: Deubiquitinase Activity</td>
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<td>Papain-like Protease Assay Buffer</td>
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<td>RdRp (SARS-CoV-2) Homogeneous Assay Kit</td>
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<td>RdRP (SARS-CoV-2) TR-FRET Assay Kit</td>
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<td>SARS-CoV-1 Spike Trimer (S1+S2):ACE2 Inhibitor Screening Colorimetric Assay Kit</td>
<td>78012</td>
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<td>SARS-CoV-2 IgG Detection Kit (Colorimetric Anti-Spike S1 RBD IgG detection)</td>
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<td>SARS-CoV-2 IgG Detection Kit (Colorimetric Trimer Anti-Spike IgG detection)</td>
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<td>SARS-CoV-2 Spike Trimer Assay Kit (S1+S2):ACE2 Inhibitor Screening Colorimetric Assay Kit</td>
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<td>Spike S1 (B.1.1.529 BA.1, Omicron Variant) (SARS-CoV-2): ACE2 TR-FRET Assay Kit</td>
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<td>Spike S1 (B.1.1.7; Alpha Variant) (SARS-CoV-2): ACE2 TR-FRET Assay Kit</td>
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<td>Spike S1 (B.1.351; Beta Variant) (SARS-CoV-2): ACE2 TR-FRET Assay Kit</td>
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<td>Spike S1 (B.1.429; Epsilon Variant) (SARS-CoV-2): ACE2 TR-FRET Assay Kit</td>
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<td>Spike S1 (B.1.617 Variant) (SARS-CoV-2): ACE2 TR-FRET Assay Kit</td>
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<td>Spike S1 (P.1; Gamma Variant) (SARS-CoV-2): ACE2 TR-FRET Assay Kit</td>
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<td>Spike S1 (Wild-Type) (SARS-CoV-2): ACE2 TR-FRET Assay Kit</td>
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<td>Spike S1 RBD (B.1.1.529 BA.1, Omicron Variant) (SARS-CoV-2): ACE2 Inhibitor Screening Chemiluminescence Assay Kit</td>
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<td>Spike S1 RBD (B.1.1.7, Alpha Variant) (N501Y) (SARS-CoV-2): ACE2 Inhibitor Screening Chemiluminescence Assay Kit</td>
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<td>Spike Trimer (S1+S2) (B.1.1.529 BA.1, Omicron Variant) (SARS-CoV-2): ACE2 Inhibitor Screening Chemiluminescence Assay Kit</td>
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<td>Spike Trimer (S1+S2) (B.1.617.2; Delta Plus Variant) (SARS-CoV-2): ACE2 Inhibitor Screening Colorimetric Assay Kit</td>
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<td>TMPRSS2 Fluorescent Assay Kit</td>
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<td>TMPRSS2 Fluorogenic Assay Kit</td>
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<td>ACE2 - CHO Recombinant Cell Line</td>
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<td>ACE2 - HEK293 Recombinant Cell Line</td>
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<td>ACE2 - HeLa Recombinant Cell Line</td>
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<td>TMPRSS2 - Vero E6 Recombinant Cell Line</td>
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<td>GC376</td>
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<td>Lentiviruses</td>
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<td>ACE2 Lentivirus</td>
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<td>Bald Lentiviral Pseudovirion (eGFP Reporter)</td>
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<td>Bald Lentiviral Pseudovirion (Luc-eGFP Dual Reporter)</td>
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<td>Bald Lentiviral Pseudovirion (Luciferase Reporter)</td>
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<td>Spike (B.1.1.529 BA.1, Omicron Variant) (SARS-CoV-2) Pseudotyped Lentivirus (eGFP Reporter)</td>
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<td>100 µl x 2</td>
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<td>Spike (B.1.1.529 BA.1, Omicron Variant) (SARS-CoV-2) Pseudotyped Lentivirus (Luciferase Reporter)</td>
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<td>Spike (B.1.429, Epsilon Variant) Pseudotyped Lentivirus (Luc Reporter)</td>
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<td>Cathepsin L, His-tag Recombinant</td>
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<td>Neuruplin-1, Avi-His-Tag, Biotin-labeled, HiP™ Recombinant</td>
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<td>Nucleocapsid Protein (B.1.1.529, Omicron Variant), Avi-His-Tag (SARS-CoV-2) Recombinant</td>
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<td>ORF9b, GST-Tag (SARS-CoV-2) Recombinant</td>
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<td>PLPro (723-1037), His-tag (SARS-CoV-1) Recombinant</td>
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<td>PLPro (1541-1857), His-tag (SARS-CoV-1) Recombinant</td>
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## Product Listing

### Proteins

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<td>101182</td>
<td>25 µg</td>
</tr>
<tr>
<td>Spike S1 RBD (K417T, E484K, N501Y), Avi-His-Tag, Biotin-labeled (SARS-CoV-2) Recombinant</td>
<td>101158</td>
<td>100 µg</td>
</tr>
<tr>
<td>Spike S1 RBD (K417T, E484K, N501Y), Avi-His-Tag, Biotin-labeled (SARS-CoV-2) Recombinant</td>
<td>100868</td>
<td>50 µg</td>
</tr>
<tr>
<td>Spike S1 RBD (K417T, E484K, N501Y), Avi-His-Tag, Biotin-labeled (SARS-CoV-2) Recombinant</td>
<td>101343</td>
<td>100 µg</td>
</tr>
<tr>
<td>Spike S1 RBD (K417T, E484K, N501Y), Avi-His-Tag, Biotin-labeled (SARS-CoV-2) Recombinant</td>
<td>101091</td>
<td>100 µg</td>
</tr>
</tbody>
</table>
# Proteins, Substrates

## Product Listing

### Proteins

<table>
<thead>
<tr>
<th>Protein</th>
<th>Catalog#</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spike Trimer (S1+S2) (B.1.429, Epsilon Variant) His-Tag (SARS-CoV-2) Recombinant</td>
<td>101057</td>
<td>100 µg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2) (B.1.617 Variant), His-Tag (SARS-CoV-2) Recombinant</td>
<td>101143</td>
<td>100 µg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2) (B.1.617.1, Kappa Variant), His-Tag (SARS-CoV-2) Recombinant</td>
<td>101144</td>
<td>100 µg; 1 mg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2) (B.1.617.2.1, Delta Plus Variant), His-Tag (SARS-CoV-2) Recombinant</td>
<td>101165</td>
<td>100 µg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2) (B.1.617.2; Delta Variant), His-Tag (SARS-CoV-2) Recombinant</td>
<td>101147</td>
<td>100 µg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2) (B.1.618 Variant), His-Tag (SARS-CoV-2) Recombinant</td>
<td>101145</td>
<td>100 µg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2) (D614G), His-tag (SARS-CoV-2) Recombinant</td>
<td>100810</td>
<td>100 µg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2) (K417T, E484K, N501Y), His-Tag (SARS-CoV-2) Recombinant</td>
<td>100988</td>
<td>100 µg; 1 mg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2) (P.1 Variant), His-Tag (SARS-CoV-2) Recombinant</td>
<td>100989</td>
<td>100 µg; 1 mg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2), His-tag (HCoV-NL63) Recombinant</td>
<td>100788</td>
<td>100 µg; 500 µg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2), His-tag (SARS-CoV-1) Recombinant</td>
<td>100789</td>
<td>100 µg; 500 µg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2), His-tag (SARS-CoV-2) Recombinant</td>
<td>100728</td>
<td>100 µg; 1 mg</td>
</tr>
<tr>
<td>Spike Trimer (S1+S2), His-tag, Eu-labeled (SARS-CoV-2) Recombinant</td>
<td>100894</td>
<td>25 µg</td>
</tr>
<tr>
<td>TMPRSS2 (R255Q), His-Tag</td>
<td>100934</td>
<td>100 µg; 1 mg</td>
</tr>
</tbody>
</table>

### Substrates

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Catalog#</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>3CL Protease (SARS-CoV-1 / SARS-CoV-2) Substrate</td>
<td>79952</td>
<td>1 mg; 10 mg</td>
</tr>
<tr>
<td>3CL Protease (MERS-CoV) Substrate</td>
<td>78021</td>
<td>50 µl; 1 mg; 10 mg</td>
</tr>
<tr>
<td>3CL Protease Fluorogenic Standard</td>
<td>78006</td>
<td>1 mg</td>
</tr>
<tr>
<td>HRP Colorimetric Substrate</td>
<td>79651</td>
<td>10 ml</td>
</tr>
<tr>
<td>PLPro Substrate</td>
<td>79997</td>
<td>1 mg</td>
</tr>
</tbody>
</table>