



## FEATURED SARS-COV-2 PROTEINS –RBD MUTANT PROTEINS

According to the new statistics from the WHO, there are 147 vaccine projects in various stages of development worldwide for the COVID19, of which 18 have entered clinical trials.

Coronavirus uses its spike glycoprotein (S), a main target for neutralization antibody, to bind to its receptor, and mediate membrane fusion and virus entry. Its receptor binding domain (RBD) has a high affinity with the ACE2 receptor protein on the surface of human cells. The S protein is an ideal entry point for vaccine design. The neutralizing antibody binds to the viral S protein RBD to competitively block the virus binding to the ACE2 protein and infect cells, achieving the effect of immune prevention and even treatment.

Over the past several months, our company has continually provided [SARS-CoV-2 related proteins and the druggable target proteins](#). We can now offer mutant spike RBD proteins, which are thermally stable and can produce antibodies with neutralizing activity. We will continue to work together with the worldwide scientists to find the path forward for today's challenges, and to support tomorrow's breakthroughs.

| Cat# | Product Name | Identity | Source |
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| Spike-213V | Recombinant COVID-19 S protein RBD(N354D), His-tagged         | S1(RBD)(N354D)-His        | HEK293 |
| Spike-214V | Recombinant COVID-19 S protein RBD (N354D, D364Y), His-tagged | S1(RBD)(N354D, D364Y)-His | HEK293 |
| Spike-215V | Recombinant COVID-19 S protein RBD (W436R), His-tagged        | S1(RBD)(W436R)-His        | HEK293 |
| Spike-216V | Recombinant COVID-19 S protein RBD (R408I), His-tagged        | S1(RBD)(R408I)-His        | HEK293 |
| Spike-219V | Recombinant COVID-19 Spike S1 (D614G) protein, His-tagged     | S1(D614G)-His             | HEK293 |
| Spike-220V | Recombinant COVID-19 Spike RBD (K458R) protein, His-tagged    | S1(RBD)(K458R)-His        | HEK293 |
| Spike-221V | Recombinant COVID-19 Spike RBD (F342L) protein, His-tagged    | S1(RBD)(F342L)-His        | HEK293 |
| Spike-222V | Recombinant COVID-19 Spike RBD (V483A) protein, His-tagged    | S1(RBD)(V483A)-His        | HEK293 |
| Spike-223V | Recombinant COVID-19 Spike RBD (A435S) protein, His-tagged    | S1(RBD)(A435S)-His        | HEK293 |
| Spike-224V | Recombinant COVID-19 Spike RBD (G476S) protein, His-tagged    | S1(RBD)(G476S)-His        | HEK293 |



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