

Invitrogen recombinant proteins for SARS-CoV-2 research

Recombinant proteins are crucial in the research to understand the function of viral proteins in SARS-CoV-2, the novel coronavirus that causes COVID-19.

To support your investigation into potential treatments, we've introduced a comprehensive selection of high-quality Invitrogen™ recombinant proteins for SARS-CoV-2 research, including spike protein, nucleocapsid protein, and angiotensin-converting enzyme 2.

ACE2 proteins

Angiotensin-converting enzyme 2 (ACE2) plays a central role in vascular, renal, and myocardial physiology. In contrast to its homolog ACE, ACE2 expression is restricted to the heart, kidney, and testes. Recently, ACE2 has also been shown to be a functional receptor of SARS-CoV-2.

SARS-CoV-2 proteins

The genomes of these viruses are positive-stranded RNA approximately 27–31 kb in length. Spike (S), membrane (M), nucleocapsid (N), and envelope (E) are the four major structural proteins that SARS-CoV-2 encodes for.

Coronaviruses rely on the spike protein, a cell surface protein, for entry into cells. Research has shown that SARS-CoV-2 infection can be mediated by the binding of the viral spike protein, a glycosylated 139 kDa protein and the major surface antigen of the virus, to the ACE2 on target cells. This binding can be blocked by a soluble form of ACE2.

SARS-CoV-2 ORF3a proteins

SARS-CoV-2 ORF3a is a sodium or calcium ion protein with 3 transmembrane domains and is localized to the Golgi complex. ORF3a expression is relatively abundant in infected cells and is thought to contribute to viral pathogenesis.

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Ordering information

Product	Species	Source	Vial size	Tag	Formulation	Cat. No.
Nucleocapsid Protein	SARS-CoV-2	<i>E. coli</i>	1 mg	-	Liquid	RP-87665
ORF8 Protein (aa 16-121)	SARS-CoV-2	<i>E. coli</i>	1 mg	His	Liquid	RP-87666
ORF3a Protein (aa 126-275)	SARS-CoV-2	<i>E. coli</i>	1 mg	His	Liquid	RP-87667
Spike Protein (S-ECD)(aa 14-1213)	SARS-CoV-2	<i>E. coli</i>	1 mg	His	Liquid	RP-87668
Nucleocapsid Protein	SARS-CoV-2	<i>E. coli</i>	1 mg	His	Liquid	RP-87669
Spike Protein (S-RBD)	SARS-CoV-2	Insect	100 µg	His	Liquid	RP-87670
Spike Protein (S-ECD)(aa 16-1213)	SARS-CoV-2	Insect	100 µg	His-Flag	Liquid	RP-87671
ACE-2 Protein (aa 18-740)	Human	HEK 293	100 µg	His-Flag	Liquid	RP-87672
Spike Protein (S-RBD)(aa 319-541)	SARS-CoV-2	HEK 293	100 µg	His	Liquid	RP-87673
Spike Protein (S-RBD)(aa 330-524)	SARS-CoV-2	<i>E. coli</i>	100 µg	His	Liquid	RP-87674
Spike Protein (S-RBD)(aa 330-524)	SARS-CoV-2	HEK 293	100 µg	His	Liquid	RP-87675
Nucleocapsid Protein (aa 1-419)	SARS-CoV-2	HEK 293	100 µg	His	Liquid	RP-87676
ACE-2 Protein (aa 1-615)	Human	HEK 293	100 µg	hFc	Liquid	RP-87677
Spike Protein (S-RBD)(aa 319-541)	SARS-CoV-2	HEK 293	100 µg	His	Lyophilized	RP-87678
Spike S1 Protein (aa 11-682)	SARS-CoV-2	HEK 293	100 µg	hFc-His	Lyophilized	RP-87679
Spike S1/S2 Protein (S-ECD)(aa 11-1208)	SARS-CoV-2	HEK 293	100 µg	His C-term	Lyophilized	RP-87680
Spike S1 Protein (aa 14-683)	SARS-CoV-2	HEK 293	100 µg	His-Avi	Lyophilized	RP-87681
Envelope Protein (aa 1-75)	SARS-CoV-2	<i>E. coli</i>	100 µg	His-Avi, N-term	Lyophilized	RP-87682
Spike Protein (S-RBD)(aa 330-524)	SARS-CoV-2	<i>E. coli</i>	200 µg	His	Liquid	RP-87683
Spike Protein (S-RBD)(aa 330-524)	SARS-CoV-2	<i>E. coli</i>	1 mg	His	Liquid	RP-87684
Spike Protein (S-RBD)(aa 330-524)	SARS-CoV-2	HEK 293	50 µg	His	Liquid	RP-87685
Spike Protein (S-RBD)(aa 330-524)	SARS-CoV-2	HEK 293	200 µg	His	Liquid	RP-87686
Spike Protein (S-RBD)(aa 330-524)	SARS-CoV-2	HEK 293	1 mg	His	Liquid	RP-87687
Nucleocapsid Protein (aa 1-419)	SARS-CoV-2	HEK 293	50 µg	His	Liquid	RP-87688
Nucleocapsid Protein (aa 1-419)	SARS-CoV-2	HEK 293	200 µg	His	Liquid	RP-87689
Nucleocapsid Protein (aa 1-419)	SARS-CoV-2	HEK 293	1 mg	His	Liquid	RP-87690
ACE-2 Protein	Human	HEK 293	50 µg	hFc	Liquid	RP-87691
ACE-2 Protein	Human	HEK 293	200 µg	hFc	Liquid	RP-87692
ACE-2 Protein	Human	HEK 293	1 mg	hFc	Liquid	RP-87693
Spike Protein (S-RBD)	SARS-CoV-2	Insect	1 mg	His	Liquid	RP-87694
Spike Protein (S-ECD)(aa 16-1213)	SARS-CoV-2	Insect	1 mg	His-Flag	Liquid	RP-87695
ACE-2 Protein (aa 18-740)	Human	HEK 293	1 mg	His-Flag	Liquid	RP-87696
Spike Protein (S-RBD)(aa 319-541)	SARS-CoV-2	HEK 293	1 mg	His	Liquid	RP-87697

For quick and easy access to all of our proteins for SARS-CoV-2 research, go to thermofisher.com/sarscov2proteins