



GENEMEDI
Innovation In Gene Therapy & Biologics

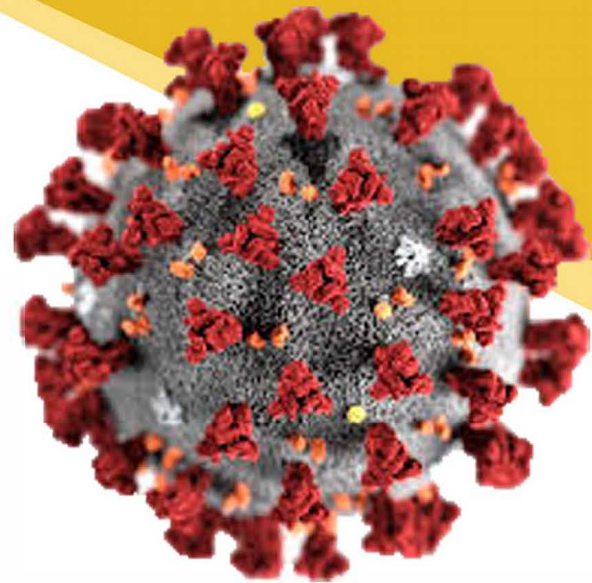
COVID-19

Antigens / Antibodies

Pseudotyped Virus

ORF Plasmids

Vaccines & Drug Discovery



PRODUCT LIST

DATA POST

PROTOCOL DOWNLOAD

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GeneMedi COVID-19 Catalog

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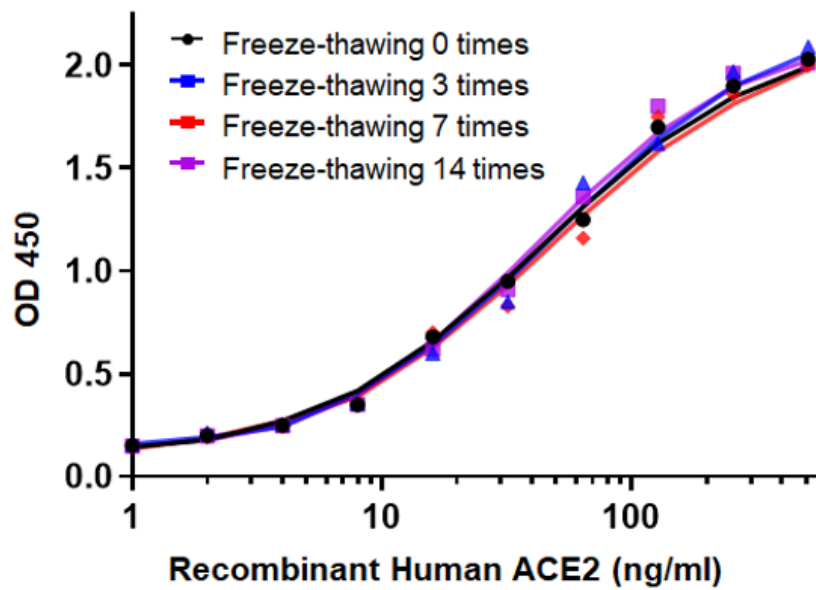
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Validated COVID-19 Antigens

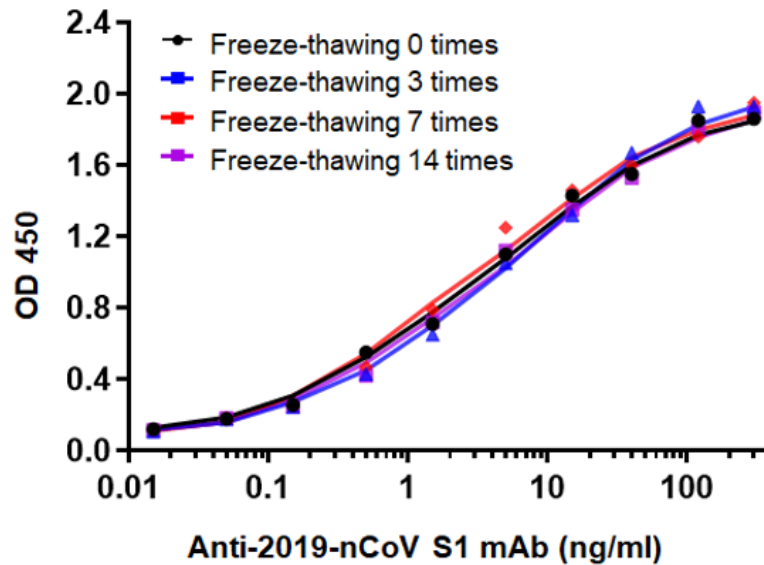
Cat No.	Antigen Name of 2019-nCoV(SARS-CoV-2)	Source (Expression Host)	Tag
GMP-V-2019nCoV- N002	Recombinant 2019-nCoV(SARS-CoV-2) Nucleocapsid Protein (N protein,N-His tag)	E.coli	N-His
GMP-V-2019nCoV- SRBD001	Recombinant 2019-nCoV(SARS-CoV-2) Spike Protein (RBD, C-His Tag)	Mamamlan (human cell)	C-His
GMP-V-2019nCoV- SRBD002	Recombinant 2019-nCoV(SARS-CoV-2) Spike Protein (RBD, C-mFc Tag)	Mamamlan (human cell)	C-mFc
GMP-V-2019nCoV- S1001	Recombinant 2019-nCoV(SARS-CoV-2) Spike Protein (S1, His Tag)	Baculovirus- Insect Cells	C-His
GMP-V-2019nCoV- S1S2001	Recombinant 2019-nCoV(SARS-CoV-2) Spike Protein (S1+S2 ECD, His tag)	Baculovirus- Insect Cells	C-His
GMP-V-2019nCoV- E001	Recombinant 2019-nCoV(SARS-CoV-2) Envelope Protein (E protein,His Tag)	E.coli	N-His
GMP-H-ACE2001	Recombinant human soluble ACE2 protein (soluble hACE2,extracellular hACE2,C-His)	Mamamlan (human cell)	C-His
GMP-H-ACE2002	Recombinant human soluble ACE2 protein (soluble hACE2, extracellular hACE2, C-Fc)	Mamamlan (human cell)	C-Fc
GMP-V-2019nCoV-Mpro001	Recombinant 2019-nCoV(SARS-CoV-2) Main Proteinase (Mpro,3CLpro, His Tag)	E.coli	N-His
GMP-V-2019nCoV-PLpro001	Recombinant 2019-nCoV(SARS-CoV-2) papain-like proteinase (PLpro, Nsp3, His Tag)	E.coli	N-His
GMP-V-2019nCoV- RdRP001	Recombinant 2019-nCoV(SARS-CoV-2) RNA-directed RNA polymerase(RdRP, Nsp12, His Tag)	E.coli	C-His
GMP-V-2019nCoV- Nsp3X-01	Recombinant 2019-nCoV(SARS-CoV-2)Nsp3-X domain(Macro domain, His tag)	E.coli	N-His
GMP-V-2019nCoV- Nsp10-01	Recombinant 2019-nCoV(SARS-CoV-2) nsp10 (nsp10-CysHis,GFL protein,His Tag)	E.coli	N-His
GMP-V-2019nCoV- Nsp16-01	Recombinant 2019-nCoV(SARS-CoV-2) nsp16 (nsp16-OMT,2'-o-MT,His Tag)	E.coli	N-His

Validation data of SRBD001 affinity and stability

SRBD001 Bind with GeneMedi's ACE2-002



SRBD001 Bind with GeneMedi's 2019nCoV-S1Ab-001



Validation data of SRBD001 stability. It shows that SRBD001 still exhibits excellent binding ability with ACE2-002 and S1Ab001 after several freeze-thawing cycles.

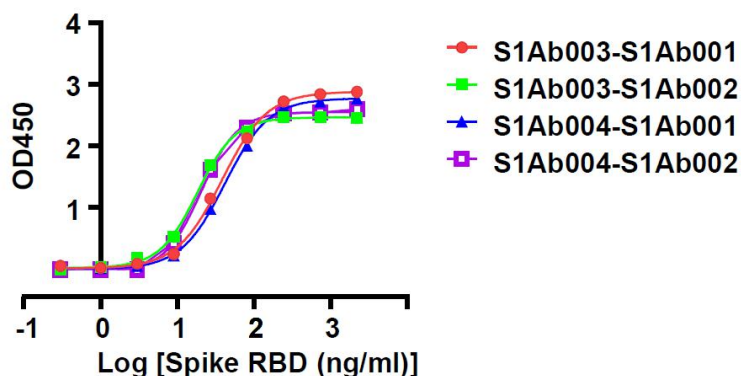
[View more data posts for COVID antigens >>](#)

Validated COVID-19 Antibodies

Cat No.	Antibody Name of 2019-nCoV(SARS-CoV-2)	Isotype	Source	Bioactivity validation
GMP-V-2019nCoV-NAb001	Anti-2019-nCoV NP human monoclonal antibody	Human IgG1	Mammalian (human cell)	N protein binding, ELISA validated as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb002 ,NAb003 ,NAb004.
GMP-V-2019nCoV-NAb002	Anti-2019-nCoV NP human scFv-Fc antibody	Scfv	Mammalian (human cell)	N protein binding, ELISA validated as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001,NAb003 , NAb004.
GMP-V-2019nCoV-NAb003	Anti-2019-nCoV NP mouse monoclonal antibody(mAb)	Mouse IgG	Hybridoma	N protein binding, ELISA validated as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001, NAb002, NAb004.
GMP-V-2019nCoV-NAb004	Anti-2019-nCoV NP mouse monoclonal antibody(mAb)	Mouse IgG	Hybridoma	N protein binding, ELISA validated as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001, NAb002 , NAb003.
GMP-V-2019nCoV-S1Ab001	Anti-2019-nCoV Spike (S1 protein) monoclonal antibody	Human IgG1	Mammalian (human cell)	S-RBD protein binding, ELISA validated
GMP-V-2019nCoV-S1Ab002	Anti-2019-nCoV Spike (S1 protein) monoclonal antibody	Human IgG1	Mammalian (human cell)	S-RBD protein binding, ELISA validated,Western Blot validated
GMP-V-2019nCoV-S1Ab003	Anti-2019-nCoV Spike (S1 protein) mouse monoclonal antibody (mAb)	Mouse IgG	Hybridoma	S-RBD protein binding, ELISA validated
GMP-V-2019nCoV-S1Ab004	Anti-2019-nCoV Spike (S1 protein) mouse monoclonal antibody (mAb)	Mouse IgG	Hybridoma	S-RBD protein binding, ELISA validated,Western Blot validated
GMP-h-IL6-Ab01	Anti-human IL-6 mouse monoclonal antibody(mAb)	Mouse IgG	Hybridoma	human IL-6 protein binding, ELISA validated as capture antibody and detection antibody.
GMP-h-IL6-Ab02	Anti-human IL-6 mouse monoclonal antibody(mAb)	Mouse IgG	Hybridoma	human IL-6 protein binding, ELISA validated as capture antibody and detection antibody.
GMP-h-IL6-Ab03	Anti-human IL-6 mouse monoclonal antibody(mAb)	Mouse IgG	Hybridoma	human IL-6 protein binding, ELISA validated as capture antibody and detection antibody.

Spike Antibody Pair And Stability Validation with Spike antigen In Sandwich ELISA

Capture-Detection

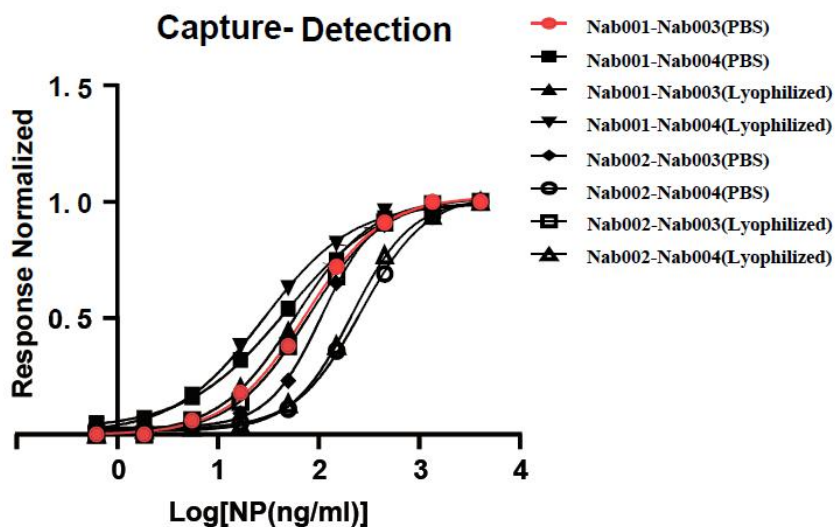


Capture	Detect	EC50 (ng/ml)
S1Ab003	S1Ab001	38.26
S1Ab003	S1Ab002	18.27
S1Ab004	S1Ab001	41.63
S1Ab004	S1Ab002	20.43

GeneMedi's SARS-CoV2 **Spike antibody** pair validation with Spike RBD antigen(GMP-V-2019nCoV-SRBD001) in sandwich ELISA.

NP Antibody Pair And Stability Validation with NP antigen In Sandwich ELISA

Capture- Detection



Capture	Detect	EC50 (ng/ml)
Nab001 in PBS	Nab003 in PBS	73
Nab001 in PBS	Nab004 in PBS	47.12
Nab001 lyophilized	Nab003 lyophilized	58.84
Nab001 lyophilized	Nab004 lyophilized	28.47
Nab002 in PBS	Nab003 in PBS	107.2
Nab002 in PBS	Nab004 in PBS	261.7
Nab002 lyophilized	Nab003 lyophilized	79.31
Nab002 lyophilized	Nab004 lyophilized	212.7

GeneMedi's SARS-CoV2 **NP antibody**(Nab) pair validation with NP antigen(GMP-V-2019nCoV N002) in sandwich ELISA. Nabs were either in PBS solution (stocked in -20 for 7days) or **lyophilized** (stock at room temperature for 7 days). GeneMedi's lyophilized antibodies presented excellent stability in the room temperature condition.

[View more data posts for COVID antibodies >>](#)

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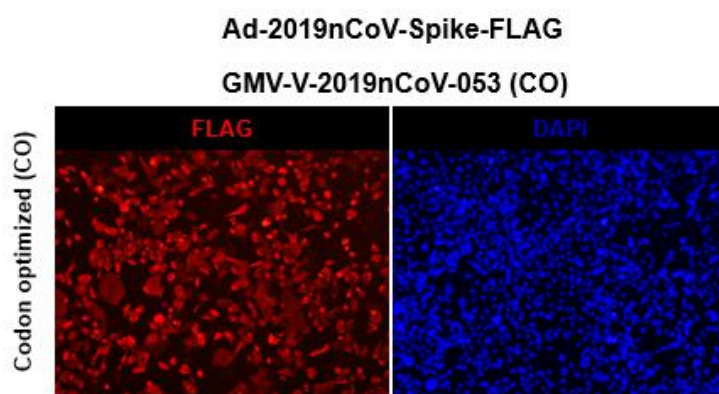
Pre-made SARS-CoV-2 ORF plasmids & viral particles

Cat No.	2019 nCoV related Gene	Gene & Vector description of 2019 nCoV	Vector	Reporter	Tag	Coden Optimized
GMV-V-2019 nCoV-051	Spike(S1+S2)	pGMLV-2019nCoV-spike (S1+S2,C-6His)	Lentiviral vector	Zsgreen	C-6His	coden optimized for mamamlian
GMV-V-2019 nCoV-001	Spike(S1+S2)	pGMLV-2019nCoV-spike(S1+S2,C-6His)	Lentiviral vector	Zsgreen	C-6His	No
GMV-V-2019 nCoV-017	Spike(S1+S2)	pGM-2019nCoV-spike protein(Sprotein,S1+S2)	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-008	Spike(S1+S2)	pGM-2019nCoV-spike protein(S protein,S1+S2)	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-053	Spike(S1+S2)	Ad-2019nCoV-Spike(S1+S2,C-3FLAG)	Pre-made adenovirus	EGFP	C-3FLAG	coden optimized for mamamlian
GMV-V-2019 nCoV-047	Spike(S1+S2)	Ad-2019nCoV-Spike(S1+S2,C-3FLAG)	Pre-made adenovirus	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-052	Spike(S1+S2)	pGMAD-2019nCoV-pGMAD-2019nCoV-spike (S protein,S1+S2,C-3FLAG)	Adenoviral vector	EGFP	C-3FLAG	coden optimized for mamamlian
GMV-V-2019 nCoV-004	Spike(S1+S2)	pGMAD-2019nCoV-pGMAD-2019nCoV-spike (S protein,S1+S2,C-3FLAG)	Adenoviral vector	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-035	Spike(S1+S2)	pGM-2019nCoV-spike protein (S protein, S1+S2)	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-037	Spike(S1+S2)	pGM-2019nCoV-spike protein (S protein, S1+S2)	pET-28a(+)	null	His	No
GMV-V-2019 nCoV-002	Spike(S1)	pGMLV-2019nCoV-S1(C-6His)	Lentiviral vector	Zsgreen	C-6His	No
GMV-V-2019 nCoV-005	Spike(S1)	pGMAD-2019nCoV-S1(C-3FLAG)	Adenoviral vector	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-048	Spike(S1)	Ad-2019nCoV-Spike(S1 protein, C-3FLAG)	Pre-made adenovirus	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-003	Spike RBD	pGMLV-2019nCoV-Spike RBD(C-6His)	Lentiviral vector	Zsgreen	C-6His	No
GMV-V-2019 nCoV-007	Spike RBD	pGMAAV-2019nCoV-Spike RBD(C-3FLAG)	AAV vector	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-050	Spike RBD	AAV-2019nCoV-Spike (S protein RBD, C-3FLAG)	Pre-made AAV	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-006	Spike RBD	pGMAD-2019nCoV-Spike RBD(C-3FLAG)	Adenoviral vector	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-049	Spike RBD	Ad-2019nCoV-Spike(S protein RBD, C-3FLAG)	Pre-made adenovirus	EGFP	C-3FLAG	No

Cat No.	2019 nCoV related Gene	Gene & Vector description of 2019 nCoV	Vector	Reporter	Tag	Coden Optimized
GMV-V-2019 nCoV-015	ORF8	pGM-2019nCoV-ORF8	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-024	ORF8	pGM-H2019nCoV-ORF8	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-033	ORF8	pGM-E2019nCoV-ORF8	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-014	ORF7	pGM-2019nCoV-ORF7a	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-023	ORF7	pGM-H2019nCoV-ORF7a	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-032	ORF7	pGM-E2019nCoV-ORF7a	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-013	ORF6	pGM-2019nCoV-ORF6	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-022	ORF6	pGM-H2019nCoV-ORF6	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-031	ORF6	pGM-E2019nCoV-ORF6	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-012	ORF3a	pGM-2019nCoV-ORF3a	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-021	ORF3a	pGM-H2019nCoV-ORF3a	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-030	ORF3a	pGM-E2019nCoV-ORF3a	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-016	ORF10	pGM-2019nCoV-ORF10	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-025	ORF10	pGM-H2019nCoV-ORF10	pcDNA3.1(+)	null	No tag	coden optimized or mamamlian
GMV-V-2019 nCoV-034	ORF10	pGM-E2019nCoV-ORF10	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-011	N protein	pGM-2019nCoV-Nucleocapsid Protein (N protein)	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-020	N protein	pGM-2019nCoV-Nucleocapsid Protein (N protein)	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-029	N protein	pGM-2019nCoV-Nucleocapsid Protein (N protein)	pET21a	null	C-His	coden optimized for E.coli

Cat No.	2019 nCoV related Gene	Gene & Vector description of 2019 nCoV	Vector	Reporter	Tag	Coden Optimized
GMV-V-2019 nCoV-010	M protein	pGM-2019nCoV-Membrane protein (M protein)	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-019	M protein	pGM-2019nCoV-Membrane protein (M protein)	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-028	M protein	pGM-2019nCoV-Membrane protein (M protein)	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-009	E protein	pGM-2019nCoV-Envelope Protein (E protein)	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-018	E protein	pGM-2019nCoV-Envelope Protein (E protein)	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-027	E protein	pGM-2019nCoV-Envelope Protein (E protein)	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-045	TMPRSS2	pGMLv-hTMPRSS2(C-3FLAG)	Lentiviral vector	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-041	ACE2	pGMLV-hACE2(C-3FLAG)	Lentiviral vector	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-042	ACE2	pAD-hACE2(C-3FLAG)	Pre-made Adenovirus	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-046	TMPRSS2	pGMLv-mtmprss2(C-3FLAG)	Lentiviral vector	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-043	ACE2	pAD-mACE2(C-3FLAG)	Pre-made Adenovirus	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-044	ACE2	pGMLV-mACE2(C-3FLAG)	Lentiviral vector	Zsgreen	C-3FLAG	No

Validation of Ad-2019nCoV-Spike(S1+S2,C-3FLAG)



Ad-2019nCoV-Spike(S1+S2,C-3FLAG) (Cat No.: GMV-V-2019nCoV-053), which are coden optimized. They have been proven to work well.

SARS-CoV-2 (2019nCoV) Pseudotyped virus production & Pseudotyped Virus Based Neutralization Assay Service

1. SARS-CoV-2 Pseudotyped virus packaging and production ([Cat.GM-2019nCoV-PSV01](#))
2. Effector cells: human ACE2 overexpression stable HEK293T cell lines ([Cat. GM-SC-293T-hACE2-01](#))
3. SARS-CoV-2(2019nCoV) Pseudotyped Virus Based Neutralization Assay Service for evaluating:
 - 1) Neutralizing antibodies
 - 2) Peptides blockers(peptide inhibitors)
 - 3) Types of Vaccines3(by testing immunized serum from mouse, NHP etc.)
 - 4) Compounds targeting Spike induced cell-fusion.

For details and price please [click here](#) or send email to support@genemedi.net

Pseudotyped virus of SARS-CoV-2 Spike Mutation Variants (D614G, S943P, V367F, G476S, V483A, h39Y, Q239K, A831V, P1263L, D839Y/N/E:D839Y, D839N, D839E)

Catalog No.	Pseudotyped virus of SARS-CoV-2 Spike Mutation Variants
GM-2019nCoV-PSV02	Spike D614G mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV03	Spike S943P mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV04	Spike V367F mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV05	Spike G476S mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV06	Spike V483A mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV07	Spike H49Y mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV08	Spike Q239K mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV09	Spike A831V mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV10	Spike P1263L mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV11	Spike D839Y/N/E-D839Y mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV12	Spike D839Y/N/E-D839N mutation SARS-CoV-2(2019nCoV) Pseudotyped virus
GM-2019nCoV-PSV13	Spike D839Y/N/E-D839E mutation SARS-CoV-2(2019nCoV) Pseudotyped virus

GeneMedi SARS-CoV-2 Pseudovirus (PSV) Based Cell Entry

[View more data post and protocol for COVID PSV >>](#)

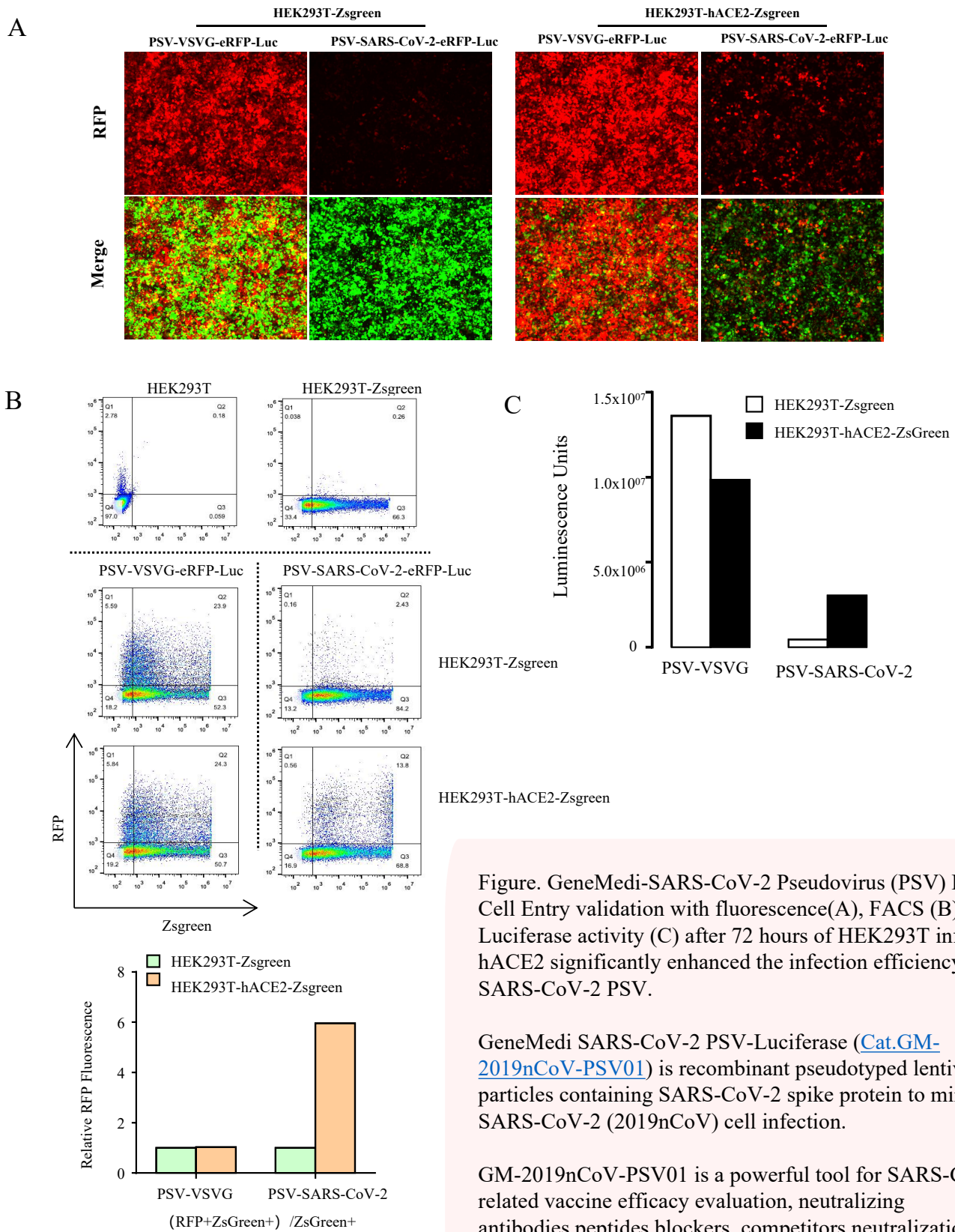


Figure. GeneMedi-SARS-CoV-2 Pseudovirus (PSV) Based Cell Entry validation with fluorescence(A), FACS (B) and Luciferase activity (C) after 72 hours of HEK293T infection. hACE2 significantly enhanced the infection efficiency of the SARS-CoV-2 PSV.

GeneMedi SARS-CoV-2 PSV-Luciferase ([Cat.GM-2019nCoV-PSV01](#)) is recombinant pseudotyped lentiviral particles containing SARS-CoV-2 spike protein to mimic SARS-CoV-2 (2019nCoV) cell infection.

GM-2019nCoV-PSV01 is a powerful tool for SARS-CoV-2 related vaccine efficacy evaluation, neutralizing antibodies, peptides blockers competitors neutralization assay, and tissue-specific infection determination.

Validated SARS-CoV-2 neutralizing antibodies

Cat No.	Antigen Name of 2019-nCoV (SARS- CoV-2)	Source (Expression Host)	Isotype s	Bioactivity validation
GMP-V-2019n CoV- SnAb001	Anti-2019-nCoV Spike (Spike RBD domain) human monoclonal neutralizing antibody (IgG1)	Mammalian (human cell)	human IgG1	Validated in COVID-19 Spike protein and Spike-RBD protein binding affinity. COVID-19 related neutralizing potency is validated by 1. 2019nCoV pseudotyped virus based neutralization assay in 293T-ACE2 effector cell. 2. competitively blocking the binding of ACE-2 receptor with SARS-CoV-2 Spike protein.
GMP-V-2019n CoV- SnAb002	Anti-2019-nCoV Spike (Spike RBD domain) human monoclonal neutralizing antibody (IgM)	Mammalian (human cell)	human IgM	Validated in COVID-19 Spike protein and Spike-RBD protein binding affinity. COVID-19 related neutralizing potency is validated by 1.2019nCoV pseudotyped virus based neutralization assay in 293T-ACE2 effector cell. 2. competitively blocking the binding of ACE-2 receptor with SARS-CoV-2 Spike protein.
GMP-V-2019n CoV- SnAb003	Anti-2019-nCoV Spike (Spike RBD domain) human monoclonal neutralizing antibody (IgA)	Mammalian (human cell)	human IgA	Validated in COVID-19 Spike protein and Spike-RBD protein binding affinity. COVID-19 related neutralizing potency is validated by 1.2019nCoV pseudotyped virus based neutralization assay in 293T-ACE2 effector cell. 2. competitively blocking the binding of ACE-2 receptor with SARS-CoV-2 Spike protein.
GMP-V-2019n CoV- SnAb004	Anti-2019-nCoV Spike (Spike RBD domain) mouse monoclonal neutralizing antibody (IgG1)	Mammalian (human cell)	mouse IgG1	Validated in COVID-19 Spike protein and Spike-RBD protein binding affinity. COVID-19 related neutralizing potency is validated by 1.2019nCoV pseudotyped virus based neutralization assay in 293T-ACE2 effector cell. 2. competitively blocking the binding of ACE-2 receptor with SARS-CoV-2 Spike protein.
GMP-V-2019n CoV- SnAb005	Anti-2019-nCoV Spike (Spike RBD domain) Cynomolgus monoclonal neutralizing antibody (IgG1)	Mammalian (human cell)	Cynomolgus (Non human primate, NHP) IgG1	Validated in COVID-19 Spike protein and Spike-RBD protein binding affinity. COVID-19 related neutralizing potency is validated by 1.2019nCoV pseudotyped virus based neutralization assay in 293T-ACE2 effector cell. 2. competitively blocking the binding of ACE-2 receptor with SARS-CoV-2 Spike protein.

SARS-CoV-2 WT and Spike Mutation Variants Pseudovirus (PSV) Based Neutralizing Assay with GeneMedi's anti-2019-nCoV Spike Neutralizing antibodies (Nabs)

[View more data posts for COVID Nabs antibodies >>](#)

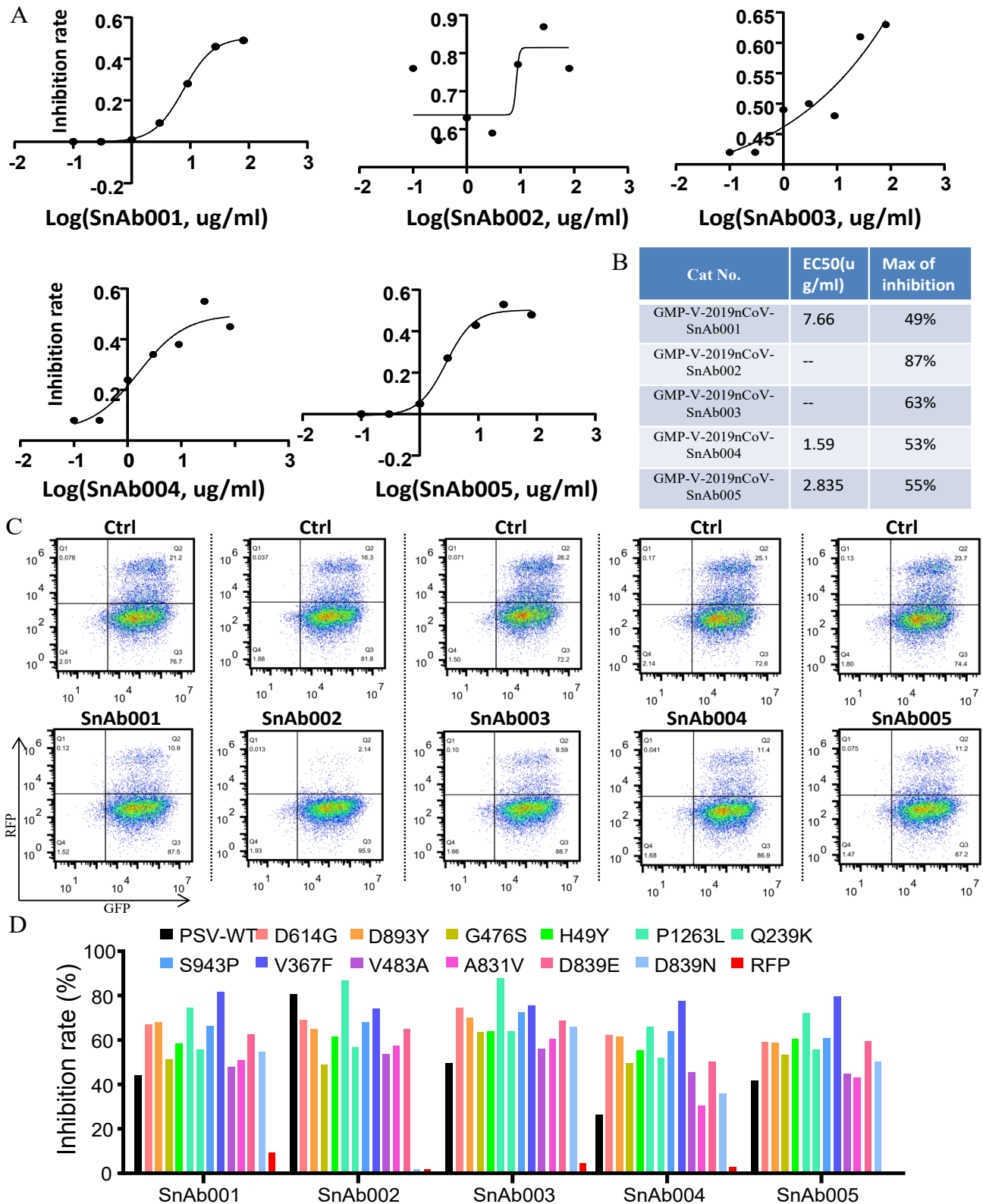


Figure. The Pseudovirus (PSV) Based Neutralizing Assay was performed on 293T-hACE2 cells infected with GeneMedi SARS-CoV-2 WT and Spike Mutation Variants (D614G, S943P, V367F, G476S, V483A, H49Y, Q239K, A831V, P1263L, D839Y/N/E:D839Y, D839N, D839E) Pseudovirus (PSV) under treatment of GeneMedi's anti-2019-nCoV Spike Neutralizing antibodies (Nabs). Inhibition rate was determined by comparing the relative RFP+GFP+/GFP+ rate.

Application	Product		Protocol Download	Post Download
NP antibody pair validation	N002	NP antibody	 NP antibody sandwich ELISA	 GeneMedi's SARS-CoV-2 NP Antibody Pair And Stability Validation with NP antigen In Sandwich ELISA
Pseudovirus (PSV) Based Cell Entry	PSV	293T-hACE2-01	 Protocol of SARS-CoV-2 Pseudovirus (PSV)-Based Neutralization Assay	 1. Validation of hACE2 overexpression stable HEK293T cell lines
			 2. Genemedi-sars-cov-2 pseudovirus (psv) based cell entry	
Spike antibody pair validation	S-RBD001	Spike antibody	 1. sandwich ELISA  2. S-RBD antibodies standard biopanning and competitive biopanning	 GeneMedi's SARS-CoV-2 Spike Antibody Pair And Stability Validation with Spike antigen In Sandwich ELISA
Spike protein binding	Spike antibody & S-RBD001	ACE2002 and S-RBD001 or S1S2001	 1. sandwich ELISA	 1. GeneMedi's Spike protein & ACE2-Fc Binding Validation In Sandwich ELISA
			 2. S-RBD antibodies standard biopanning and competitive biopanning	 2. GeneMedi's SARS-CoV-2 Spike Antibody Pair And Stability Validation with Spike antigen
ACE2 binding	S1S2001	ACE2002	 1. sandwich ELISA	 GeneMedi's Spike protein & ACE2-Fc Binding Validation In Sandwich ELISA
	S-RBD001		 2. S-RBD antibodies standard biopanning and competitive biopanning	
lateral-flow tests	Antigens		 Preparation of AuNP conjugates	
HRP labeling	Antibodies		 Detection Antibody HRP labeling	
Pseudovirus (PSV)-Based Neutralization Assay	293T-hACE2-01 & PSV	SnAb	 Protocol of SARS-CoV-2 Pseudovirus (PSV)-Based Neutralization Assay	 1. Validation of hACE2 overexpression stable HEK293T cell lines
				 2. GeneMedi-SARS-CoV-2 WT and Spike Mutation Variants Pseudovirus (PSV) Based Neutralizing Assay with GeneMedi's anti-2019-nCoV Spike Neutralizing antibodies (Nabs)
Neutralizing antibodies (Nabs) binding	S-RBD001	SnAb	 sandwich ELISA	 GeneMedi's anti-2019-nCoV Spike Neutralizing antibodies (Nabs) and Spike RBD protein binding validation
Neutralizing antibodies (Nabs) competitive binding assay	ACE2002 & S-RBD001	SnAb	 Neutralizing antibodies (Nabs) competitive binding assay	 GeneMedi's anti-2019-nCoV Spike Neutralizing antibodies (Nabs) competitive binding assay validation

GeneMedi

GeneMedi is a BioTech company with strong expertise in Gene&Biogitics discovery, artificail design, and State-of-the-Art Manufacturing.

Our scientists and experts serve global clients in biologics discovery including antibodies, recombinant protein and multiple types of viral vectors. GeneMedi offers Pre-made and custom-made recombian protein and antibodies for drug discovery and diagnostic ingredients. GeneMedi help scientists from academic to industry in vectors optimization, cell line development, scalable production, process development and technology transfer. GeneMedi GeneTherapy center also help in gene therapy&gene editing discovery and development.

Our Responsibility

1. Pre-made and custom-made recombinant proteins (Antibodies, Enzymes, Membrane protein, Factors and other antigens) for drug discovery and diagnostics ingredients, high quality, bulk in stock.
2. Membrane Protein & antibodies artificail design, discovery and State-of-the-Art Manufacturing.
3. High quality, scalable, State-of-the-Art Manufacturing in gene therapy vectors including adeno-associated virus (AAV) vector, lentivirus vector and adenovirus vector.
4. AAV gene therapy innovation: AAV capsid evolution and novel AAV generation for next-generation vector of gene therapy.



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