

# SARS-CoV-2 Pseudotyped Virus Production Pseudotyped Virus Based Neutralization Assay Service



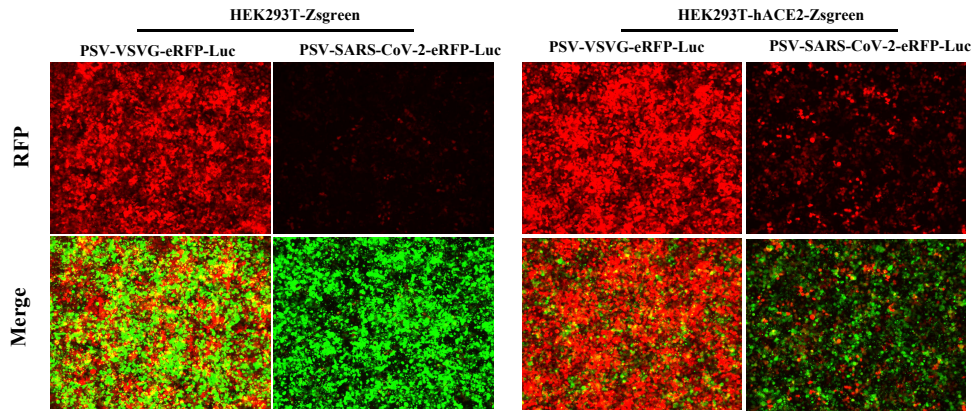
For COVID-19 related

Neutralizing antibodies  
Peptides blockers (peptide inhibitors)

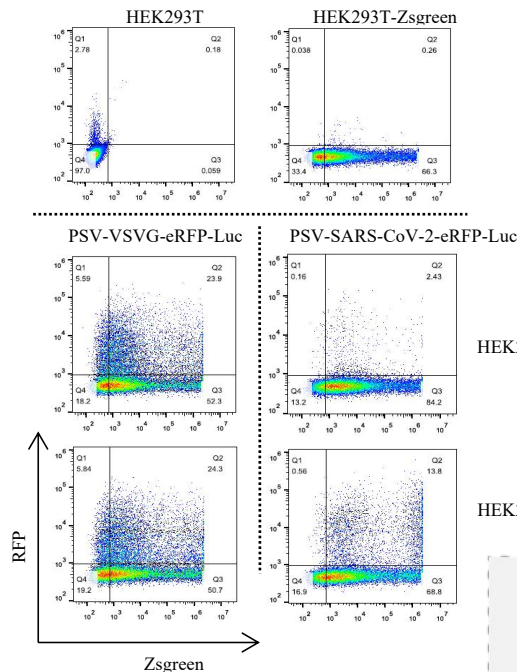
Types of Vaccines  
Compounds targeting Spike induced cell-fusion

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

A



B



C

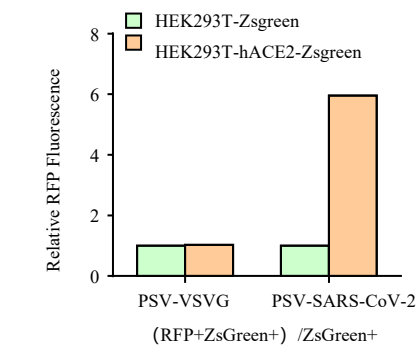
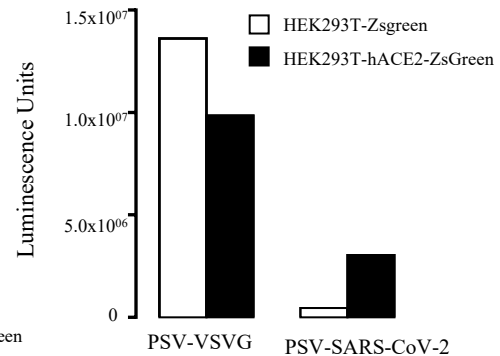


Figure. GeneMedi-SARS-CoV-2 Pseudovirus (PSV) Based Cell Entry validation with fluorescence(A), FACS (B) and Luciferase activity (C) after 72 hours of HEK293T infection. hACE2 significantly enhanced the infection efficiency of the SARS-CoV-2 PSV.

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.

## RELATED PRODUCTS

### 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](mailto: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

## 2019 nCoV (SARS2 coronavirus) Antibodies for COVID-19

Cat No.	Antigen Name of 2019-nCoV(SARS-CoV-2)	Isotype	Source	Bioactivity validation
GMP-V-2019nCoV-NAb001	<a href="#">Anti-2019-nCoV NP human monoclonal antibody</a>	Human IgG1	Mammalian (human cell)	N protein binding, <b>ELISA validated</b> as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb002 , GMP-V-2019nCoV-NAb003 , GMP-V-2019nCoV-NAb004.
GMP-V-2019nCoV-NAb002	<a href="#">Anti-2019-nCoV NP humancFv-Fc antibody</a>	Scfv	Mammalian (human cell)	N protein binding, <b>ELISA validated</b> as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001, GMP-V-2019nCoV-NAb003 , GMP-V-2019nCoV-NAb004.
GMP-V-2019nCoV-NAb003	<a href="#">Anti-2019-nCoV NP mouse monoclonal antibody(mAb)</a>	Mouse IgG	Hybridoma	N protein binding, <b>ELISA validated</b> as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001, GMP-V-2019nCoV-NAb002, GMP-V-2019nCoV-NAb004.
GMP-V-2019nCoV-NAb004	<a href="#">Anti-2019-nCoV NP mouse monoclonal antibody(mAb)</a>	Mouse IgG	Hybridoma	N protein binding, <b>ELISA validated</b> as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001, GMP-V-2019nCoV-NAb002 , GMP-V-2019nCoV-NAb003.
GMP-V-2019nCoV-S1Ab001	<a href="#">Anti-2019-nCoV Spike (S1 protein) monoclonal antibody</a>	Human IgG1	Mammalian (human cell)	S-RBD protein binding, ELISA validated
GMP-V-2019nCoV-S1Ab002	<a href="#">Anti-2019-nCoV Spike (S1 protein) monoclonal antibody</a>	Human IgG1	Mammalian (human cell)	S-RBD protein binding, ELISA validated, Western Blot validated
GMP-V-2019nCoV-S1Ab003	<a href="#">Anti-2019-nCoV Spike (S1 protein) monoclonal antibody (mAb)</a>	Mouse IgG1	Hybridoma	S-RBD protein binding, ELISA validated
GMP-V-2019nCoV-S1Ab004	<a href="#">Anti-2019-nCoV Spike (S1 protein) mouse monoclonal antibody (mAb)</a>	Mouse IgG1	Hybridoma	S-RBD protein binding, ELISA validated

## Recombinant 2019 nCoV (SARS2 coronavirus) Antigens reagents

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

## 2019 nCoV (SARS2 coronavirus) gene and vectors

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

## 2019 nCoV (SARS2 coronavirus) gene and vectors

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

## 2019 nCoV (SARS2 coronavirus) gene and vectors

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