



CoV2-Spike-EF1a-D614G-N501Y

(Plasmid #177939)

PURPOSE

Transient mammalian expression of codon optimized SARS-CoV-2 Spike proteins (D614G, N501Y). This version gives lower expression of Spike and is more convenient for generating VLPs.

DEPOSITING LAB

[Jennifer Doudna](#)

PUBLICATION

[Syed et al Science. 2021 Nov 4:eabl6184. doi: 10.1126/science.abl6184](#)  ([How to cite](#) ↓)

SEQUENCE INFORMATION

[Sequences \(1\)](#)

ORDERING

Item	Catalog #	Description	Quantity	Price (USD)	
Plasmid	177939	Standard format: Plasmid sent in bacteria as agar stab	1	\$85	Add to Cart

BACKBONE

Vector backbone: pcDNA3.1

Vector type: Mammalian Expression

GROWTH IN BACTERIA

Bacterial Resistance(s): Ampicillin, 100 µg/mL

Growth Temperature: 37°C

Growth Strain(s): DH5alpha

Copy number: High Copy

GENE/INSERT

Gene/Insert name: SARS-CoV-2 Spike protein (D614G, N501Y)

Species: Other

Mutation: D614G, N501Y

Entrez Gene: [S](#) (a.k.a. (also known as) GU280_gp02, spike glycoprotein)

CLONING INFORMATION

Cloning method: Gibson Cloning

RESOURCE INFORMATION

Supplemental Documents:

- [CoV2-Spike-EF1a-D614G-N501Y.gb](#)

Article Citing this Plasmid:

- [1 Reference](#)

TERMS AND LICENSES

Academic/Nonprofit Terms:

- [UBMTA](#)

Industry Terms:

- Not Available to Industry

Trademarks:

- Zeocin® is an InvivoGen trademark.

DEPOSITOR COMMENTS


Please visit <https://www.biorxiv.org/content/10.1101/2021.08.05.455082v1>  for bioRxiv preprint.

These plasmids were created by your colleagues. Please acknowledge the Principal Investigator, cite the article in which the plasmids were described, and include Addgene in the Materials and Methods of your future publications.

For your **Materials & Methods** section:

CoV2-Spike-EF1a-D614G-N501Y was a gift from Jennifer Doudna (Addgene plasmid # 177939 ; <http://n2t.net/addgene:177939> ; RRID:Addgene_177939)

For your **References** section:

Rapid assessment of SARS-CoV-2 evolved variants using virus-like particles. Syed AM, Taha TY, Tabata T, Chen IP, Ciling A, Khalid MM, Sreekumar B, Chen PY, Hayashi JM, Soczek KM, Ott M, Doudna JA. *Science*. 2021 Nov 4:eabl6184. doi: 10.1126/science.abl6184 . 10.1126/science.abl6184 [PubMed 34735219](#)

