

Product Information

MemDX™ Membrane Protein SARS2 S Mutation (L18F, D80A, D215G, ΔL242/A243/L244, R246I, K417N, N501Y, E484K, A701V, D614G) Protein (Surface glycoprotein) Reporter Virus Particles

Cat. No.: **MPX2002K**

This product is for research use only and is not intended for diagnostic use.

This product is a SARS2 S Mutation (L18F, D80A, D215G, ΔL242/A243/L244, R246I, K417N, N501Y, E484K, A701V, D614G) protein Reporter Virus Particles. Reporter Virus Particles (RVPs) are replication-incompetent pseudotyped virus particles. RVPs display antigenically correct virus protein on a heterologous virus core and carry a modified genome that expresses a convenient optical reporter gene (GFP or luciferase). The product is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

SARS2

Target Protein

S Mutation (L18F, D80A, D215G, ΔL242/A243/L244, R246I, K417N, N501Y, E484K, A701V, D614G)

Protein Class

Host-virus interaction

TMD

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Sequence

MFVFLVLLPLVSSQCVNFTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHS
TQDLFLPFFSNVTWFHAIHVSGTNGTKRFANPVLFPNDGVYFASTEKSN
IRGWIFGTTLDSTQSLNIVNATNVVIVKCEFCNDPFLGVYHKNK
SWMESEFRVYSSANNCTFEYVSQPFLMDLEGKQGNFKNLREFVFNIDGY
FKIYSKHTPINLVRGLPQGFSALEPLVDLPIGINITRFQTLHISYLT
PGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK
CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASV
YAWNKRISNCVADYSVLVNSASFSTFKCYGVSPKLNLCFTNVYADSF
VIRGDEVQRQIAPGQTGNADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYN
YLYRLFRKSNLKPFRDISTEIYQAGSTPCNGVKGFNCYFPLQSYGFQPT
YGVGYQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFNGLTGTG
VLTESNKKFLPFQGFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP
GTNTSNQVAVLYQGVNCTEVPVAIHADQLTPTWRVYSTGNSNVFQTRAGCL
IGAELVNSYECDIPIGAGICASYQTQNSPRRARSVASQSIAYTMSLG
VENSVAYSNNSIAIPTNFTISVTTEILPVSMTKTSVDCTMYICGDSTEC
NLLLQYGSFCTQLNRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKDFGGF
NFSQILPDPSKPSKRSFIEDLLFNKVTADAGFIKQYGDCLGDIAARDLI
CAQKFNGLTVLPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM
QMAYRFNGIGVTQNVLYENQKLIANQFNSAIGKIQDSLSTASALGKLQD
VVNQNAQALNTLVKQLSSNFGAIVSVLNDILSRDLKVEAEVQIDRLITGR
LQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLM

SFPQSAPHGVVFLHVTYVPAQEKNFTTAPAICHGDKAHFPREGVFVSNGT
HWFVTQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKE
ELDKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL
QELGKYEQYIKWPWYIWLGFIAGLIAIVMTIMLCCMTSCCCLKGCCSC
GSCCKFDEDDSEPVLKGVKLHYT

Product Description

Protein Format

Reporter Virus Particles

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

S Mutation (L18F, D80A, D215G, ΔL242/A243/L244, R246I, K417N, N501Y, E484K, A701V, D614G)

Full Name

Surface glycoprotein

Introduction

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.

Alternative Names

S Mutation (L18F, D80A, D215G, ΔL242/A243/L244, R246I, K417N, N501Y, E484K, A701V, D614G); structural protein; spike protein; Surface glycoprotein; SARS2; SARS-CoV-2; Reporter Virus Particles; RVPs

Gene ID

[43740568](#)

UniProt ID

[P0DTC2](#)