

Product Information

MemDX™ Membrane Protein SARS2 S (Surface glycoprotein) Expressed in cell-free expression system, Full Length

Cat. No.: **MPX0371K**

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

This product is a 141.2 kDa SARS2 S membrane protein expressed in cell-free expression system. The protein 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

Protein Length

Full length

Protein Class

Host-virus interaction

Molecular Weight

141.2 kDa

TMD

1

Sequence

MFVFLVLLPLVSSQCVNLTTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHS
TQDLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSN
IRGWIFGTTLDSTQSLNATNVVIVKCEFCNDPFLGVYYHKNNK
SWMESEFRVYSSANNCTFEYVSQPFLMDLEGKQGNFKNLREFVFKNIDGY
FKIYSKHTPINLVRDLPPQGFSALEPLVDLPIGINITRFQTLALHRSYLT
PGDSSSGWTAGAAAYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK
CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASV
YAWNRKRISNCVADYSLVYNSASFSTFKCYGVSPKLNLCFTNRYADSF
VIRGDEVQRQAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYN
YLYRLFRKSNLKPFRDISTEIQAGSTPCNGVEGFNCYFPLQSYGFQPT
NGVGYQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNGLTGTG
VLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP
GTNTSNQVAVLYQGVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCL
IGAELVNNSECDIPGAGICASYQTQNSPRRARSVASQSIIAYTMSLG
AENSVAYSNNIAIPTNFTISVTTEILPVSMKTSVDCTMYICGDSTEC
NLLLQYGSFCTQLNRLTGIAVEQDKNTQEVFAQVKQIYKTPPIKDFGGF
NFSQILPDPSKPSKRSFIEDLLFNKVTADAGFIKQYGDCLGDIAARDLI
CAQKFNGLTVPPLLTDEMAQYTSALLAGTITSGWTFGAGAALQIPFAM
QMAYRFNGIGVTVQNVLYENQKLIANQFNSAIGKIQDSLSTASALGKLQD

VVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGR
LQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLM
SFPQSAPHGVVFLHVTVPAQEKNFTTAPAICHDGKAHFPREGVFVSNGT
HWFVTQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKE
ELDKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL
QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCCLKGCCSC
GSCCKFDEDDSEPVLKGVKLHYT

Product Description

Expression Systems

Cell-free expression system

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

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; structural protein; spike protein; Surface glycoprotein

Gene ID

[43740568](#)

UniProt ID

[P0DTC2](#)