

Product Information

MemDX™ Membrane Protein Human SPG7 (SPG7 matrix AAA peptidase subunit, paraplegin) Full Length

Cat. No.: **MPC3494K**

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

This product is a made-to-order Human SPG7 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

SPG7

Protein Length

Full length

Protein Class

Protease

TMD

2

Sequence

MAVLLLLLRLRRGPGPRPLWGPGPAWSPGFARPGRGRPYMASRPPG
DLAEAGGRALQSLQLRLLTPTFEGINGLLLQHLVQNPVRLWQLLGGTFY
FNTSRLKQKNKEKDKSKGKAPEEDEEERRRRERDDQMYRERLRTLLVIAV
VMSLLNALSTSGGSISWNDFVHEMLAKGEVQVRVQVPESDVVEVYLHPGA
VVFGRPRLALMYRMQVANIDKFEEKLRAAEDELNIEAKDRIPVSYKRTGF
FGNALYSVGMTAVGLAILWYVFRLAGMTGREGGSAFNQLKMARFTIVDG
KMGKGVSFKDVAGMHEAKLEVREFVDYLKSPERFLQLGAKVPKGALLGP
PGCGKTLLAKAVATEAQVPFLAMAGPEFVEVIGGLGAARVRSLFKEARAR
APCIVYIDEIDAVGKKRSTTMSGFSNTEEEQTLNQLLVEMDGMGTDDHVI
VLASTNRADILDGALMRPGRDLRHVFIDLPTLQERREIFEQHLKSLKLTQ
SSTFYSQLAELTPGFSGADIANICNEAALHAAREGHTSVHTLNFEYAVE
RVLAGTAKKSKILSKEEQKVAFHESGHALVGWMLEHTEAVMKVSITPRT
NAALGFAQMLPRDQHLFTKEQLFERMCMALGGRASEALSFNEVTSGAQDD
LRKVTRIAYSMVKQFGMAPGIGPISFPEAQEGLMGIGRRPFSQGLQQMMD
HEARLLVAKAYRHTEKVLQDNLDKLQALANALLEKEVINYEDIEALIGPP
PHGPKMIAPQRWIDAQREKQDLGEEETEETQQPPLGGEEPTWPK

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

SPG7

Full Name

SPG7 matrix AAA peptidase subunit, paraplegin

Introduction

This gene encodes a mitochondrial metalloprotease protein that is a member of the AAA family. Members of this protein family share an ATPase domain and have roles in diverse cellular processes including membrane trafficking, intracellular motility, organelle biogenesis, protein folding, and proteolysis. Mutations in this gene cause autosomal recessive spastic paraplegia 7. Two transcript variants encoding distinct isoforms have been identified.

Alternative Names

SPG7; CAR; PGN; CMAR; SPG5C; paraplegin; SPG7, paraplegin matrix AAA peptidase subunit; cell matrix adhesion regulator; spastic paraplegia 7 (pure and complicated autosomal recessive); spastic paraplegia 7 protein; SPG7 matrix AAA peptidase subunit, paraplegin

Gene ID

[6687](#)

UniProt ID

[Q9UQ90](#)