

Product Information

MemDX™ Membrane Protein Human FREM1 (FRAS1 related extracellular matrix 1) for

Antibody Discovery

Cat. No.: **MP0690J**

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

This product is a 241.9 kDa Human FREM1 membrane protein expressed in HEK293T. 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

FREM1

Protein Length

Full-length

Protein Class

Protease, Transmembrane

Molecular Weight

241.9 kDa

Sequence

MNSLSWGAANAVLLLLLLAWASPTFISINRGVRVMKGHSAFLSGDDLKFAIPKEKDACKVEVVMNEPITQ
RVGKLTQVFDCHFLPNEVKYVHNGCPILDEDTVKLRLYRFTERDTFIETFILWVYLLEPCDNIHMSNN
VLEVPEFNGLSQAIDKNLLRFDYDRMASLECTVSLDTARTRLPAHGQMVLGEPREEPRGDQPHSFFPES
QLRAKLKCPGGCTPGLKKIGSLKVSCEEFLMGLRYQHLDPPSPNIDYISIQDLTDTRSKIVYKSESA
WLPVYIRAGIPNQIPKAAFMVFILEVDQFILTSLTTSVLDCEEDETPKPLLVFNITKAPLQGYVTHLLD
HTRPISSFTWKDLSDMQIAYQPPNSSHSERRHDEVELEVYDFFERSAPMTVHISIRTADTNAPRVSWNT
GLSLLEGQSRAITWEQFQVVDNDDIGAVRLVTVGGLQHGWLTLRGGKGFLFTVADLQAGVVRYYHDDSDS
TKDFVVFRIFDGHHSIRHKFPINVLPKDDSPFLITNVVIELEEGQTILIQGSMLRASDVDAASDDYIFFN
ITKPPQAGEIMKKPGPGLIGYPVHGFLQRDLFNGIYYRHFGGEIFEDSFQFVLWDSHEPPNLSVPQVAT
IHITPVDQQLPKEAPGVSRHLVVKETEVAIYTKKQLHFIDSESYDRELVTITPPFFSFHRHLDAKGL
FMVDSIPKVVKNPATALELRSTQHAVNYMKVAYMPPMQDIGPHCRDVQFTFSVSNQHGGTLHGICFNITI
LPVDNQVPEAFNPLKVTEGGQSIISTEHILISDADTKLDNIDLSLRELPLHGRVELNGFPLNSGGTFSW
GDLHTLKVRYQHDGTEVLQDDLLLEVTDGTNSAEFVLHVEVFPVNDPPVLKADLMPVMNCSEGGEVVIT
SEYIFATDVSDNLKLMFVIAREPQHGVVRRAGVTVDQFSQRDVISEAVTYKHTGGEIGLMPCFDTITLV
VSDGEAGPFVNGCCYNGPNPSVPLHASFPVYDLNITVYPVDNQPPSIAIGPVFVDEGCSTALTVNHLSA
TDPDTAADDLEFVLVSPQFGYLENILPSVGFEKSNIGISIDSFQWKDMNAFHINYVQSRHLRIEPTADQ
FTVYVTDGKHHSLEIPFSIINPTNDEAPDFVQNTVCEGQMKELDSSIISAVDLDIPQDALLFSITQK
PRHGLLIDRGFSKDFSENKQPANPHQKHAPVHSFSMELLKTGMRLTYMHDDSESLADDFITQLSDGKHKI
LKTISVEVIPVNDKPMLSKKAIEIAMNMGETRISSAISDAIDESPKEIYYVFERLPQNGQLQLKIGR
DWVPLSPGMKCTQEEVDLNLRLYTHGTGAMDSQNGQDSFTFYLDGNNRSPALDCQITIKDMEKGDIVLTK
PLVVSXGDRGFLTTTTLLAVDGTDKPEELLYVITSPPRYGQIEYVHYPGVPITNFSQMDVVGQVTCYVHK
SKVTVSSDRFRFIISNGLRTEHGVFEITLETVDRALPVVTRNKGRLAQQGAVGLLSPDLLQLTDPDTPAE

NLTFLLVQLPQHGLYLWGTGLLQHNFTQQDVDSKNVAYRHSGGDSQTDCTFMATDGTNQGFIIVNGRVW
EEPVLFTIQVDQLDKTAPRITLLHSPSQVGLLKNGCYGIYITSRVLKASDPDTEDDQIIFKILQGPKHGH
LENTTTGFEIHEKFSQKDLNSKTILYIINPSLEVNSDTVEFQIMDPTGNSATPQILELKWSHIEWSQTEY
EVCENVGLLPLEIIRRGYSMDSAFVGIVNQVSAAVGKDFTVIPSKLIQFDPGMSTKMWNIAITYDGLLE
DDEVFEVILNSPVNAVLTGKTAAVKILDSKGGQCHPSYSSNQSKHSTWEKGIWHLLPPGSSSSTTSGSF
HLERRPLPSSMQLAVIRGDTLRGFDSTDLSQRKLRTRGNGKTVRPSSVYRNGTDIIYNYHGIVSLKLEDD
SFPTHKRKAKVSIISQPQKTIKVAELPQADKVESTTDSHFPRQDQLPSFPKNCTLELKGLFHFEEGIQKL
YQCNGLIAWKAWSPTKDVEDKSCPAGWHQHSGYCHILITEQKGTWNAAAQACREQYLGNLVTVFSRQHMR
WLWDIGGRKSFWIGLNDQVHAGHWEWIGGEPVAFTNGRRGPSQRSKLGKSCVLVQRQGWQTKDCRRAKP
HNYVCSRKL

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

FREM1

Full Name

FRAS1 related extracellular matrix 1

Introduction

This gene encodes a basement membrane protein that may play a role in craniofacial and renal development. Mutations in this gene have been associated with bifid nose with or without anorectal and renal anomalies. Alternatively spliced transcript variants encoding different isoforms have been described. PubMed ID 19940113 describes one such variant that initiates transcription within a distinct, internal exon; the resulting shorter isoform (named Toll-like/interleukin-1 receptor regulator, TILRR) is suggested to be a co-receptor of the interleukin 1 receptor family and may regulate receptor function and Toll-like receptor/interleukin 1 receptor signal transduction, contributing to the control of inflammatory response activation.

Alternative Names

BNAR; C9orf143; C9orf145; C9orf154; MOTA; TILRR; TRIGNO2

Gene ID

[158326](#)

UniProt ID

[Q5H8C1](#)