

Product datasheet for TP305133L

FGD1 (NM_004463) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human FYVE, RhoGEF and PH domain containing 1 (FGD1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205133 representing NM_004463 Red=Cloning site Green=Tags(s)

MHGHRAPGGAGPSEPEHPATNPPGAAPPACADSDPGASEPGLLARRGSGSALGGPLDPQFVGPSDTSLGA
APGHRVLP CGSPQHHRALRFSYHLEGSQPRPGLHQGNRILVKLSLDPGQSLEPHPEGPQRLRSDPGPP
TETPSQRPSPLKRAPGPKQVPPKPSYLQMPRMPPPLEPIPPPPSRPLPADPRVAKGLAPRAEASPSAA
VSSLIEKFEREPVIVASDRPVPGSPGPPEPVMLPQPTSQPPVPQLPEGEASRCLFLLAPGPRDGEKVPN
RDSGIDSISSPSNSEETCFVSDDGPPSHSLCPGPPALASVPVALADPHRPGSQEVSDLEEEDEEEEE
KDREIPVPLMERQESVELTVQKVFHIANELLQTEKAYVSRLLHLLDQVFCARLLEEARNRSSFADVHVG
IFSNIYSYCFHQQLPELEKRMEEWDYPRIGDILQKLAPFLKMYGEYVKNFDRAVELVNTWTERSTQ
FKVIIHEVQKEEACGNLTLQHHMLEPVQRIPTYELLLKDYLLKLPHGSPDSKDAQSLELIATAAEHSNA
AIRKMERMHKLLKVYELLGGEEDIVSPTKELIKEGHILKLSAKNGTTQDRYLILFNDRLLYCVPRLRLG
QKFSVRARIDVDGMELKESNLNLPRTFLVSGKQRSLELQARTEEEKDWVQAINSTLLKHEQTLETFLK
LNSTNREDEDTPPNSPNVDL GKRAPTPIREKEVTMCMRCQEPFNSITKRRRHCKACGHVWCGKCFRFR
LVYDNNRSNRVCTDCYVALHGVP GSSPACSQHTPQRRRSILEKQASVAAENSVICSFLHYMEKGGKGWHK
AWFVVPENEPLVLIYGAPQDVKAQRSLPLIGFEVGPPEAGERPDRRHVFKITQSHLSWYFSPETEELQR
RWMAVLGRAGRGDTFCPGPTLSE DREMEEAPVAALGATAEPPESPQTRDKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	106.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



[View online »](#)

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_004454](#)

Locus ID: 2245

UniProt ID: [P98174](#), [A0A024R9Y5](#)

RefSeq Size: 4291

Cytogenetics: Xp11.22

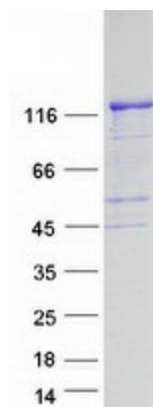
RefSeq ORF: 2883

Synonyms: AAS; FGDY; MRXS16; ZFYVE3

Summary: This gene encodes a protein that contains Dbl (DH) and pleckstrin (PH) homology domains and is similar to the Rho family of small GTP-binding proteins. The encoded protein specifically binds to the Rho family GTPase Cdc42Hs and can stimulate the GDP-GTP exchange of the isoprenylated form of Cdc42Hs. It also stimulates the mitogen activated protein kinase cascade leading to c-Jun kinase SAPK/JNK1 activation. Defects in this gene are the cause of the faciogenital dysplasia in Aarskog-Scott syndrome and a syndromatic form of X-linked cognitive disability. [provided by RefSeq, Jul 2017]

Protein Pathways: Regulation of actin cytoskeleton

Product images:



Coomassie blue staining of purified FGD1 protein (Cat# [TP305133]). The protein was produced from HEK293T cells transfected with FGD1 cDNA clone (Cat# [RC205133]) using MegaTran 2.0 (Cat# [TT210002]).