

Product datasheet for TP305133

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), 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC205133 representing NM_004463
Red=Cloning site Green=Tags(s)

MHGHRAPGGAGPSEPEHPATNPPGAAPPACADSDPGASEPGLLARRGSGSALGGPLDPQFVGPSDTSLGA
 APGHRVLP CGSPQHHRALRFSYHLEGSQPRPGLHQGNRILVKLSLDPGQSLEPHPEGPQRLRSDPGPP
 TETPSQRPSPLKRAPGPKQVPPKPSYLQMPRMPPLLEPIPPPPSRPLPADPRVAKGLAPRAEASPSAA
 VSSLIEKFEREPVIVASDRPVPGPSPPPEVMLPQPTSQPPVPQLPEGEASRCLFLLAPGPRDGEKVPN
 RDSGIDSISSPSNSEETCFVSDDGPPSHSLCPGPPALASVPVALADPHRPGSQEVDSLEEEDDEEEEE
 KDREIPVPLMERQESVELTVQKVFHIANELLQTEKAYVSRLLHLLDQVFCARLLEEARNRSSFADVHVG
 IFSNICSIYCFHQQLPELEKRMEEWDYPRIGDILQKLAPFLKMYGEYVKNFDRAVELVNTWTERSTQ
 FKVIIHEVQKEEACGNLTLQHHMLEPVQRIPRYELLLKDYLLKLPHGSPDSKDAQSLELIATAAEHSNA
 AIRKMERMHKLLKVYELLGGEEDIVSPTKELIKEGHILKLSAKNGTTQDRYLILFNDRLLYCVPRLRLG
 QKFSVRARIDVDGMELKESNLNLPRTFLVSGKQRSLELQARTEEEKDWVQAINSTLLKHEQTLETFLK
 LNSTNREDEDTPPNSPNVDLGKRAPPIREKEVTMCMRCQEPFNSITKRRHHCKACGHVWCGKCSEFRAR
 LVYDNNRSNRVCTDCYVALHGVPSSPACSQHTPQRRRSILEKQASVAAENSVICSFLHYMEKGGKGWHK
 AWFVVPENEPLVLIYGAPQDVKAQRSPLIGFEVGPPEAGERPDRRHVFKITQSHLSWYFSPETEELQR
 RWMAVLGRAGRGDTFCPGPTLSEDEMEEAPVAALGATAEPPESPQTRDKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

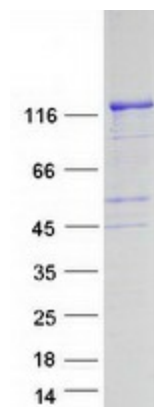
Tag: C-Myc/DDK
Predicted MW: 106.4 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity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



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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]).