

Product datasheet for PH305133

FGD1 (NM_004463) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FGD1 MS Standard C13 and N15-labeled recombinant protein (NP_004454)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205133
Predicted MW:	106.4 kDa
Protein Sequence:	>RC205133 representing NM_004463 Red=Cloning site Green=Tags(s)

MHGHRA PGGAGPSEPEHPATNPPGAAPPACADSDPGASEPGLARRGSGSALGGPLDPQFVGPSDTSLGA
APGHRVLP CGPSPQHHRALRFSYHLEGSQPRPGLHQGNRILVKLSLSDPGQSLEPHPEGPQRLRSDPGPP
TETPSQRPSPLKRAPGPKQVPPKPSYLMQPRMPPLEPIPPPPSRPLPADPRVAKGLAPRAEASPSAA
VSSLIEKFEREPVIVASDRPVPGSPGPEPVMLPQPTSQPPVPQLPEGEASRCLFLLAPGPRDGEKVPN
RDSGIDSISSPSNSEETCFVSDDGPPSHSLCPGPPALASVPVALADPHRPGSQEVSDLEEDDEEEEE
KDREIPVPLMERQESVELTVQQVFHIANELLQTEKAYVSRLLHLLDQVFCARLLEEARNRSSFADVVHG
IFSNICSIYCFHQQLPELEKRMEEWDYPRIGDILQKLAPFLKMYGEYVKNFDRAVELVNTWTERSTQ
FKVIIHEVQKEEACGNLTLQHHMLEPVQRIPRYELLLKDYLLKLPHGSPDSKDAQSLELIATAAEHSNA
AIRKMERMHKLLKVYELLGGEEDIVSPTKELIKEGHILKLSAKNGTTQDRYLILFNDRLLYCVPRLRLG
QKFSVRARIDVDGMELKESSNLNLPRTFLVSGKQRSLELQARTEEEKDWVQAINSTLLKHEQTLETFFKL
LNSTNREDEDTPNPNVDL GKRAPTI REKEVTMCMRCQEPFNSITKRRHHCKACGHVVCCKCSEFRAR
LYVDNRSNRVCTDCYVALHGVP GSSPACSQHTPQRRRSILEKQASVAAENSVICSFLHYMEKGGKGWHK
AWFVVPENEPLVLYIYGAPQDVKAQRSLPLIGFEVGPPEAGERPDRRHVFKITQSHLSWYFSPETEELQR
RWM AVLGRAGRGDTFCGP T L SEDREMEAPVAALGATAEPPESPQTRDKT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



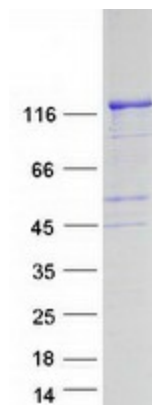
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RefSeq: [NP_004454](#)
RefSeq Size: 4291
RefSeq ORF: 2883
Synonyms: AAS; FGDY; MRXS16; ZFYVE3
Locus ID: 2245
UniProt ID: [P98174](#), [A0A024R9Y5](#)
Cytogenetics: Xp11.22

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]).