

Product datasheet for PH319442

FGD4 (NM_139241) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FGD4 MS Standard C13 and N15-labeled recombinant protein (NP_640334)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219442
Predicted MW:	86.4 kDa
Protein Sequence:	>RC219442 representing NM_139241 Red=Cloning site Green=Tags(s)

MEEIKPASASCVSKEKPSKVSLSIRFEGGSSLSNYSCLKKESAVNLSNAPRTPGRHGLTTTPQQKLLSQH
LPQRQGNDDTKTQGAQTCVANGVMAAQNMECEEEKAATLSSDTSIQASEPLDMHIVNGERDETATAPA
SPTTDSKCDGNASDSSYRTPGIGPVLPLEERGAETETKVQERENGESPLELEQLDQHHEMKETNEQKLHKI
ANELLTTERAYVNRDLDDQVFYCKLLEEANRGSFPAEMVNIKIFSNISSINAFHSKFLLEPELEKRMQEW
TTPRIGDILQKLAPFLKMYGEYVKGFDNAMELVKNMTERIPQFKSVVEEIQKQKICGSLTLQHMLPEVQ
RIPRYEMLLKDYLRKLPDSDLDWDAKKSLEIIISTAASHNSAIRKMNKLLLEIYEMLGEEEDIVNPS
NELIKEGQILKLAARNTSAQERYLFLFNMLLYCVPKFSLVGSKFTVRTRVIGIDGMKIVETQNEEYPHTF
QVSGKERTLELQASSAQDKEEWIKALQETIDAFHQHETFRNAIAKDNDIHSEVSTAELGKRAPRWIRDN
EVTMCMKCKEPFNALTRRRHHCACGYVVCWKCSYKAQLEYDGGKLSKVCKDCYQIISGFTDSEKKRK
GILEIESAEVSGNSVCSFLQYMEKSKPWQKAWCVIPKQDPLVLYMGAPQDVRAQATIPLLGYVVD
RSDADLPHSFKLTQSKSVHSFAADSEELKQKWLKVILLAVTGETPGGPNHPATLDDHPEPKKSEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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.
RefSeq:	NP_640334

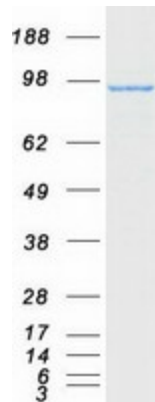


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RefSeq Size:	2931
RefSeq ORF:	2298
Synonyms:	CMT4H; FRABP; ZFYVE6
Locus ID:	121512
UniProt ID:	Q96M96
Cytogenetics:	12p11.21

Summary:

This gene encodes a protein that is involved in the regulation of the actin cytoskeleton and cell shape. This protein contains an actin filament-binding domain, which together with its Dbl homology domain and one of its pleckstrin homology domains, can form microspikes. This protein can activate MAPK8 independently of the actin filament-binding domain, and it is also involved in the activation of CDC42 via the exchange of bound GDP for free GTP. The activation of CDC42 also enables this protein to play a role in mediating the cellular invasion of *Cryptosporidium parvum*, an intracellular parasite that infects the gastrointestinal tract. Mutations in this gene can cause Charcot-Marie-Tooth disease type 4H (CMT4H), a disorder of the peripheral nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]

Product images:

Coomassie blue staining of purified FGD4 protein (Cat# [TP319442]). The protein was produced from HEK293T cells transfected with FGD4 cDNA clone (Cat# [RC219442]) using MegaTran 2.0 (Cat# [TT210002]).