

Product datasheet for **TP326488M**

Filamin A (FLNA) (NM_001110556) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens filamin A, alpha (actin binding protein 280) (FLNA), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T



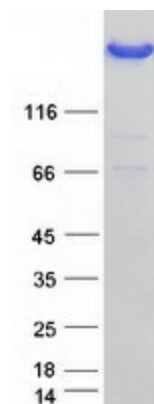
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Expression cDNA >RC226488 representing NM_001110556
 Clone or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MSSSHSRAGQSAAGAAPGGVDTRDAEMPATEKDLAEDAPWKKIQNTFTRWCNEHLKCVSKRIANLQTD
 LSDGLRLIALLEVLVSQKKMHRKHNRPTFRQMQLENVSALEFLDRESIKLVSIDSKAIVDGNLKLILGL
 IWTLLHYSISMPMWDEEEDEEAKKQTPKQRLLGWIQNKLPQLPITNFSRDWQSGRALGALVDSCAPGLC
 PDWDSWDASKPVTNAREAMQQADDWLGIPQVITPEEIVDPNVDEHSVMTYLSQFPKAKLKPAPLRPKLN
 PKKARAYGPGIEPTGNMVKKRAEFTVETRSAGQGEVLVYVEDPAGHQEEAKVTANNDKNRTFSVWYVPEV
 TGTHKVTVLFAGQHIAKSPFEVYVDKSQGDASKVTAQGGPLEPSGNIANKTTYFEIFTAGAGTGEVEVI
 QDPMGQKGTVEPQLEARGDSTYRCSYQPTMEGVHTVHVTFAGVPIRSPYTVTVGQACNPSACRAVGRGL
 QPKGVRVKETADFKVYTKGAGSGELKVTVKGPKGEERVKQKDLGDGVYGFYYPMPVPGTYIVTITWGGQN
 IGRSPFEVKVTECGNQKVRWGPGLGGVVGKSADVFVEAIGDDVGTGLGFSVEGSPQAKIECDDKGDGS
 CDVRYWPQEAGEYAVHVLNCSEDIRLSPFMADIRDAPQDFHPDRVKARGPGLKTVAVNPKPAEFTVDAK
 HGGKAPLRVQVQDNEGCPVEALVKDNGNGTYSCSYVPRKPVKHTAMVSWGGSIPNSPFRVNVGAGSHPN
 KVKVYGPVAKTGLKAHEPTYFTVDCAEAGQGDVSIKICAPGVGPAEADIDFIIRNDNDTFTVKYTP
 RGAGSYTIMVLFADQATPTSPIRVKVEPSHDASKVKAEGPGLSRTGVELGKPTHFTVNAKAAGKGLDVQ
 FSGLTKGDAVRDVIIDHHDNTYTVKYTPVQQGPVGVNVTYGGDPIPKSPFSVAVSPSLDLSKIKVSGLG
 EKVDVKGDKQEFVTKSKGAGGQKVKASKIVGPSAAVPCVPEPGLGADNSVVRFLPREEGPYEVEVTDGV
 PVPGPSFPLEAVAPT KPSKVKAFGPGLQGG SAGSPARFTIDTKGAGTGGGLLTVGEPCEAQLECLDNGDG
 TCSVSYVPTPEGDYNINILFADTHIPGSPFKAHVPCFDASKVKCSGPGLERATAGEVGQFQVDCSSAGS
 AELTIEICSEAGLPAEVIYQDHGDGHTITYIPLCPGAYTVTIKYGQPVNPFPSKLQVEPAVDTSGVQC
 YGPGIEGQGVFREATTEFSVDARALTQTGGPHVKARVANPSGNLTETYVQDRGDGMYKVEYTPYEEGLHS
 VDVTYDGSVPSPFPQVPVTEGCDPSRVRVHGPGIQSGTTNKNKFTVETRGAGTGGGLLAVEGPPSEAKM
 SCMDNKGDCSVEYIPYEAGTYSLNVYGGHQVPGSPFKVPVHDVTDASKVKCSGPGLSGPMVRANLPQS
 FQVDTSKAGVAPLQVKVQGPGLVEPVDVDNADGTQTVNVVPSREGPYSISLVYGDDEEVPSPFKVKVL
 PTHDASKVKASGPGLNNTTGVPAASLPVEFTIDAKDAGEGLLAVQITDPEGKPKKTHIQDNHDGTYTVAYVP
 DVTGRYTIKYGDEIPFSPYRVRAVPTGDASKCTVTVSIGGHGLGAGIGPTIQIGEETVITVDTKAAG
 KGKVTCTVCTPDGSEVDVDWENEDGTFDIFYTAPQPGKYVICVRFGEHVPNSPFQV TALAGDQPSVQP
 PLRSQQLAPQYTYAQGGQQTWAPERPLVGVNGLDVTSLRPFDLVIPFTIKKEITGEVRMPSPGKVAQPTI
 TDNKDGTVTVRYAPSEAGLHEMDIRYDNMHIPGSPLQFYVDYVNCGHVTAYGPGPLTHGWNK PATFTVNT
 KDAGEGGLSLAIEGPSKAEISCTDNQDGTCSVSYLPVLPGDYSILVKYNEQHVPGPSPF TARVTGDDSMRM
 SHLKVGSAADIPINISSETDLSLLTATVPPSGREEPELLKRLRNHGVGISFVKETGEHLVHVKKNGQHV
 ASSPIPVVISQSEIGDASRVVSGQGLHEGHTFEPAEFIIDTRDAGYGGLSLSIEGPSKVDINTEDLEDG
 TCRVTYCPTEPGNYIINIKFADQHVPGPSFVKVTGEGRVKESITRRRRAPSVANVGS HCDLSLKIPEIS
 IQDMAQVTSPSGKTHEAEIVEGENHTYCI R FVPAEMGHTVSVKYKGQHVPGPSPFQFTVGPLGEGGAHK
 VRAGGPGLERAEAGVPAEFSIWTREAGAGGLAIAVEGPSKAEISFEDRKDGSCGVAYVWQEPGDYEVSVK
 FNEEHIPDSPFVVPVASPSGDARRLTVSSLQESGLKVNQPASFAVSLNGAKGAIDAKVHSPSGALEECYV
 TEIDQDKYAVRFIPRENGVYLIDVKFN GTHIPGPSFKIRVGEPEGHGGDPGLVSAYGAGLEGGVTGNPAEF
 VVNTSNAGAGALSVTIDGPSKVKMDCQCEPEGYRVYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPR
 LVSNHSLHETSSVFVDSLTKATCAPQH GAGPGPADASKVAKGLGLSKAYVGQKSSFTVDCSKAGNNML
 LVGVHGPRTPC EEILVKHVGSRLYSVSYLLKDKGEYTLVVKWGDEHIPGSPYRVVVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	280.6 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
Bioactivity:	In-gel phosphorylation assay (PMID: 25512366)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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_001104026
Locus ID:	2316
UniProt ID:	P21333 , Q60FE5 , Q6NXF2
Cytogenetics:	Xq28
RefSeq ORF:	7941
Synonyms:	ABP-280; ABPX; CSBS; CVD1; FGS2; FLN; FLN-A; FLN1; FMD; MNS; NHBP; OPD; OPD1; OPD2; XLVD; XMVD
Summary:	The protein encoded by this gene is an actin-binding protein that crosslinks actin filaments and links actin filaments to membrane glycoproteins. The encoded protein is involved in remodeling the cytoskeleton to effect changes in cell shape and migration. This protein interacts with integrins, transmembrane receptor complexes, and second messengers. Defects in this gene are a cause of several syndromes, including periventricular nodular heterotopias (PVNH1, PVNH4), otopalatodigital syndromes (OPD1, OPD2), frontometaphyseal dysplasia (FMD), Melnick-Needles syndrome (MNS), and X-linked congenital idiopathic intestinal pseudoobstruction (CIIPX). Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2009]
Protein Pathways:	Focal adhesion, MAPK signaling pathway

Product images:

Coomassie blue staining of purified FLNA protein (Cat# [TP326488]). The protein was produced from HEK293T cells transfected with FLNA cDNA clone (Cat# [RC226488]) using MegaTran 2.0 (Cat# [TT210002]).