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Product datasheet for RC221764

Filamin A (FLNA) (NM_001456) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Filamin A (FLNA) (NM_001456) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Filamin A
Synonyms:	ABP-280; ABPX; CSBS; CVD1; FGS2; FLN; FLN-A; FLN1; FMD; MNS; NHBP; OPD; OPD1; OPD2; XLVD; XMVD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC221764 representing NM_001456
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC221764 representing NM_001456
Red=Cloning site Green=Tags(s)

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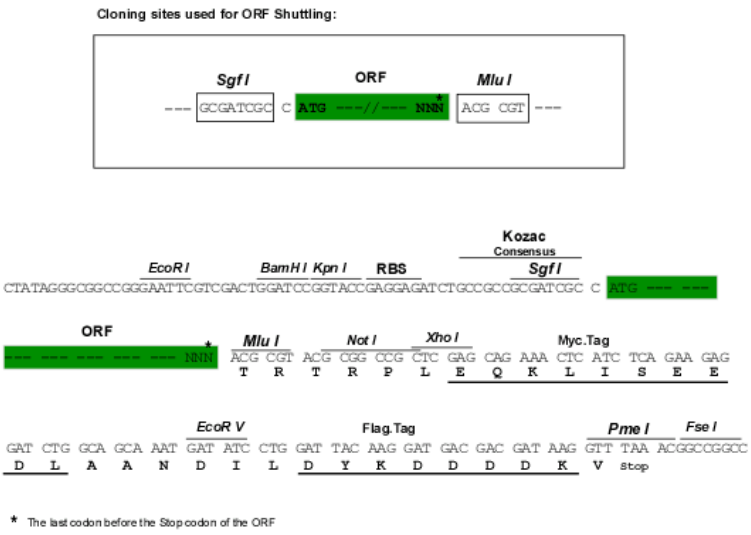
Chromatograms: https://cdn.origene.com/chromatograms/mk8040_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001456
ORF Size:	7941 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001456.1, NP_001447.1

RefSeq Size: 8368 bp

RefSeq ORF: 7920 bp

Locus ID: 2316

UniProt ID: P21333

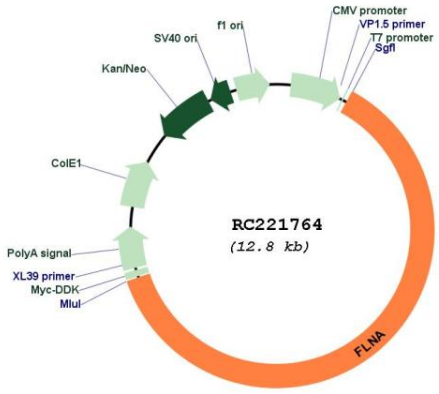
Cytogenetics: Xq28

Protein Pathways: Focal adhesion, MAPK signaling pathway

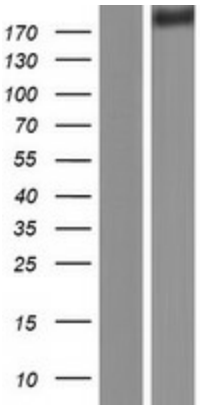
MW: 279.8 kDa

Gene 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]

Product images:



Circular map for RC221764



Western blot validation of overexpression lysate (Cat# [LY419924]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221764 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).