

## Product datasheet for RC228713

### Filamin B (FLNB) (NM\_001164317) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Filamin B (FLNB) (NM_001164317) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Filamin B
Synonyms:	ABP-278; ABP-280; AOI; FH1; FLN-B; FLN1L; LRS1; SCT; TABP; TAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228713 representing NM_001164317 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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**Protein Sequence:** >RC228713 representing NM\_001164317  
 Red=Cloning site Green=Tags(s)

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 VESVTRSTETCYSAIPKASSDASKVTSKGAGLSKAFV GQKSSFLVDCSKAGSNMLLIGVHGPTTPCEEV  
 SMKHVGNQQYNYVTVVVKERGDYVLAVKWGEEHIPGSPFHVTVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001164317

**ORF Size:** 7899 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\\_001164317.2](#)

**RefSeq ORF:** 7902 bp

**Locus ID:** 2317

**UniProt ID:** [O75369](#)

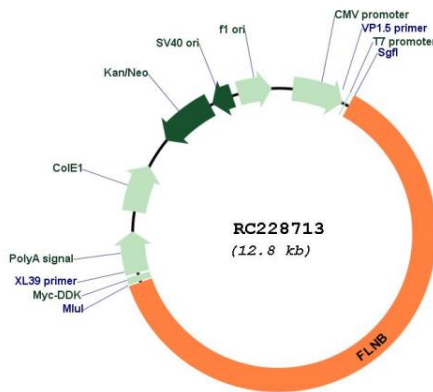
**Cytogenetics:** 3p14.3

**Protein Pathways:** Focal adhesion, MAPK signaling pathway

**MW:** 281.5 kDa

**Gene Summary:** This gene encodes a member of the filamin family. The encoded protein interacts with glycoprotein Ib alpha as part of the process to repair vascular injuries. The platelet glycoprotein Ib complex includes glycoprotein Ib alpha, and it binds the actin cytoskeleton. Mutations in this gene have been found in several conditions: atelosteogenesis type 1 and type 3; boomerang dysplasia; autosomal dominant Larsen syndrome; and spondylocarpotarsal synostosis syndrome. Multiple alternatively spliced transcript variants that encode different protein isoforms have been described for this gene. [provided by RefSeq, Nov 2009]

**Product images:**



Circular map for RC228713