

Product datasheet for **MC229690**

Flna (NM_001290421) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Flna (NM_001290421) Mouse Untagged Clone
Tag: Tag Free
Symbol: Flna
Synonyms: ABP-280; Dilp2; F730004A14Rik; filamin-1; Fln1; GENA 379
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229690 representing NM_001290421
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGACATCCGTGAGGCACCCAGGATTTTACCCAGACAGGGTGAAGGCACGTGGCCTGGATTGG
 AGAAGACTGGTGTGGCTGTCAACAAGCCAGCAGAGTTCACAGTTGATGCCAAGCATGCTGGGAAGGCTCC
 TCTTCGAGTTCAGTTCAGGACAATGAGGGCTGCTCTGTGGAAGGCAGTCAAGGACAATGGCAATGGT
 ACTTACAGCTGTTCTTATGTGCCAGAAAGCCAGTGAAGCACACAGCCATGGTTTCTGGGGAGGTGTCA
 GCATCCCCAACAGTCTTTCCGGTGAATGTGGGAGCTGGCAGCCATCCAAACAAAGTCAAGGTGTATGG
 TCCAGGAGTGGCCAAGACTGGGCTCAAGGCCATGAACCTACCTACTTTACTGTGGATTGTACTGAAGCT
 GGCCAGGGAGATGTCAGCATTGGTATCAAGTGTGCCCTGGAGTAGTGGGCCCACTGAGGCTGATATTG
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 TACCATCATGGTCCTTTTTGCTGACCAGGCCACACCCAGCCCATCAGAGTCAAAGTGGAGCCTTCT
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 CCCATTTACAGTCAATGCTAAAAGTCTGGGAAAGCAAGTGGATGTCCAATTCAGACTGGCTAA
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 TTCAAGGCCCATGTGGCTCCTGTTTTGATGCATCCAAGGTGAAGTGTCTCAGGCCCTGGGCTGGAGCGGG



CTACTGCTGGTGAGGTAGGGCAGTTCCAAGTGGACTGTTCAAGTCTGGCAGTGCTGAGTTGACGATTGA
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 TTCTGCTGCTGATATCCCATCAATATCTCAGAAACAGACCTTAGCCTACTCACAGCCACTGTGGTGCCA
 CCTTCGGGTCGAGAGGAACCTGTCTGTGAAACGTTTGGCAAATGGCCACGTGGGGATTTCCTTCGTGC
 CCAAGGAGACAGGGGAGCACCTGGTACATGTGAAGAAGAATGGCCAGCATGTGGCAAGCAGTCCCATCCC
 AGTAGTGATCAGCCAGTCGGAGATAGGTGATGCCAGCCGTGTGAGGGTCTCTGGTCAAGGTCTTCATGAA
 GGTCAACCTTTGAGCCTGCAGAGTTTATTATTGACACCAGAGATGCAGGCTACGGTGGGCTTAGTCTGT
 CCATTGAGGGCCCTAGCAAAGTAGACATCAACACAGAGGATCTGGAGGATGGCACATGCAGGGTACCTA
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 ATCCGATTTGTGCTGCTGAGATGGGAATGCATACAGTCAAGTACAAGGCCAGCATGTACCTG
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 GTGGTGTGGCCTACGTAGTTCAGGAGCCAGGTGACTATGAGGTCTCAGTCAAGTTCAACGAGGAGACAT
 ACCTGATAGCCCTTCTGTTGCTGTGGCTTCTCCGTCTGGTGCAGCCCGCCCTTACTGTTTCTAGT
 CTTCAGGAGTCAGGGTTAAAGGTCAACAGCCAGCATCTTTTGCAGTCACTGTAATGGAGCCAAGGGG
 CAATTGATGCCAAGGTGCACAGCCCTCAGGAGCTCTGGAGGAGTGTATGTCACAGAGATTGACCAAGA

TAAGTATGCTGTGCGTTTCATCCCACGAGAGAATGGCATCTACTTGATTGATGTCAAGTTCAATGGTACT
CACATTCCTGGAAGTCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGGAGGGGACCCAGGCTTAGTGT
CCGCCTATGGAGCAGGCCTGGAAGGTGGTGTACAGGGAGCCCAGCAGAGTTTATTGTGAACACAAGCAA
TGCAGGAGCTGGTGCCCTTTCGGTTACCATTGATGGCCCTCCAAGGTGAAGATGGATTGCCAGGAGTGC
CCCAGGGCTATCGTGTACCTATACCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTATGGTG
GCCCTATCACATTGGTGAAGTCCCTTAAAGCCAAGGTACAGGTCTCGTCTTGTAAAGCAACCACAG
CCTCCATGAGACATCATCTGTGTTTGTGGACTCTTGGACTAAAGTTGCCACGGTCCCCAGCATGCAACC
TCAGGCCAGGTCTGCTGATGTCAGCAAGGTAGTAGCCAAAGGCCTGGGGCTAAGCAAGGCTTATGTAG
GCCAGAAGAGCAACTTCACAGTAGATTGCAGCAAGCAGGTAACAACATGCTGCTGGTGGCGTGCATGG
CCCAAGGACACCCTGTGAAGAGATCCTGGTGAAACACATGGGCAGCCGCTCTATAGTGTCTTTACCTG
CTCAAGGACAAAGGGGAGTACACACTGGTGGTCAAGTGGGGTGTAGCATATCCAGGCAGCCCATACC
GCATTATGGTACCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001290421
Insert Size:	5967 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001290421.1, NP_001277350.1</u>
RefSeq Size:	8369 bp
RefSeq ORF:	5967 bp
Locus ID:	192176
Cytogenetics:	X 37.89 cM

Gene Summary:

Actin binding protein that promotes orthogonal branching of actin filaments and links actin filaments to membrane glycoproteins. Anchors various transmembrane proteins to the actin cytoskeleton and serves as a scaffold for a wide range of cytoplasmic signaling proteins (By similarity). Interaction with FLNA may allow neuroblast migration from the ventricular zone into the cortical plate. Tethers cell surface-localized furin, modulates its rate of internalization and directs its intracellular trafficking. Involved in ciliogenesis. Plays a role in cell-cell contacts and adherens junctions during the development of blood vessels, heart and brain organs (PubMed:17172441). Plays a role in platelets morphology through interaction with SYK that regulates ITAM- and ITAM-like-containing receptor signaling, resulting in by platelet cytoskeleton organization maintenance (PubMed:20713593).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains multiple differences compared to variant 1, including initiation of translation at a downstream in-frame start codon. The encoded isoform (2) has a shorter N-terminus than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.