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Product datasheet for MC218804

Fnbp1 (NM_001177649) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fnbp1 (NM_001177649) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fnbp1
Synonyms:	1110057E06Rik; 2210010H06Rik; FBP1; Fbp17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC218804 representing NM_001177649
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTGGGGCACTGAGCTCTGGGATCAGTTTGACAACTTGGAAAAACATACACAGTGGGGAATCGATA
TTCTTGAGAAATACATCAAGTTTGTCAAGGAGAGGACGGAGATTGAGCTCAGCTATGCCAAGCAACTCAG
GAATCTTTCAAAGAAATACCAACCTAAGAAGAACTCGAAGGAAGAGGAGGAGTACAAGTACACGGCTTGC
AAAGCCTTTCTTTCCACCCTGAATGAGATGAATGACTACGCCGGGCAGCACGAGGTCATCTCTGAGAACA
TGACGTCACAGATCACGGTGGACCTGATGCGCTACGTTCAGGAGCTGAAGCAGGAGAGGAAATCGAACTT
CCATGATGGACGGAAGGCTCAGCAGCACATAGAAACGTGTTGGAAGCAACTGGAGTCAAGTAAGAGGAGG
TTTGAGCGGGACTGTAAGGAAGCCGACCGGGCACAGCAGTACTTCGAGAAAATGGACGCTGACATCAACG
TGACCAAGGCGGATGTGGAAAAGGCACGACAACAAGCTCAGATACGCCAGCAAATGGCAGAGGACAGCAA
AGCAGATTACTCCTTAATCCTGCAGAGATTCAACCAGGAGCAATGGGAATACTACCATACCCACATCCCC
AACATCTTCCAGAAAATACAAGAGATGGAGGAGAGGCGGATTGTGCGTATTGGGGAGTCCATGAAGACGT
ACGCAGAGGTGGACCGGCAGGTGATACCCATCATCGGGAAGTGCCTGGACGGGATAGTGAAGGCGGCCGA
GTCTATCGACCAGAAAAACGACTCCCAGCTGGTCGTAGAAGCCTATAAGTCAGGATTCGAGCCTCCTGGA
GACATTGAATTCGAAGATTACACACAGCCAATGAAACGCACAGTGTCAGACAACAGCCTTTCCAGCTCCA
AAGAAGGCAAGCCTGAGCTCAGATTTGGCGGCAAGTCCAGAGGCAAGCTCTGGCCATTCATCAAGAAAAA
CAAGGGTGTCACACCAGAAGACTTCAGCAACTTCCCACCTGAGCAGAGAAGGAAAAAACTACAACAGAAA
GTTGACGATCTCAATAGAGAGATACAGAAGGAGACGGACCAGAGAGATGCCATCACCAAAATGAAAGATG
TGTACCTAAAGAACCCTCAGATGGGAGACCCAGCCAGCCTGGACCAGAAGCTCACCGAAGTCACCCAGAA
CATAGAGAAACTGCGGCTGGAGGCTCAGAAGTTTGAGGCCTGGCTGGCTGAGGTAGAAGGCAGACTCCCA
GCTCGGAGTGAGCAGGCACGCCGGCAGAGTGGACTGTATGATGGCCAGACACACCAGACGGTCACTAACT
GTGCCCAGGACCGGGAGAGCAGCCCAGATGGTAGTTACACAGAGGAGCAAAGCCAGGAGAGCGAGCACAA
GGTCCTGGCCCCGGATTTCGACGATGAATTTGATGATGAGGAGCCGCTTCCAGCCATAGGGACCTGCAAG
GCCCTCTACACATTTGAAGGTCAGAACGAAGGCACCATTTCCGTAGTTGAAGGAGAGACGCTGAGCGTGA
TTGAAGAGGACAAAGGCGATGGGTGGACTCGCATCCGCAGAAATGAAGACGAGGAGGGTTACGTCCCCAC
TTCCTACGTCGAAGTCTATTTAGACAAAAACGCCAAAGGTTCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001177649

Insert Size: 1656 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).

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_001177649.1, NP_001171120.1
RefSeq Size:	4548 bp
RefSeq ORF:	1656 bp
Locus ID:	14269
UniProt ID:	Q80TY0
Cytogenetics:	2 B
Gene Summary:	Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during the late stage of clathrin-mediated endocytosis. Binds to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promotes membrane invagination and the formation of tubules. Also enhances actin polymerization via the recruitment of WASL/N-WASP, which in turn activates the Arp2/3 complex. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. May act as a link between RND2 signaling and regulation of the actin cytoskeleton. May be required for the lysosomal retention of FASLG/FASL (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (4) lacks two alternate, in-frame exons and uses a different splice site in the 3' coding region, compared to variant 3. The resulting protein (isoform d) is shorter when it is compared to isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.