

## Product datasheet for **MC217422**

### **Fnbp1 (NM\_001177650) Mouse Untagged Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Fnbp1 (NM_001177650) 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:** >MC217422 representing NM\_001177650  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATGACTACGCCGGCAGCAGGAGTTCATCTCTGAGAACATGACGTACAGATCACGGTGGACCTGA  
 TGCCTACGTTTCAGGAGCTGAAGCAGGAGAGGAAATCGAACTTCCATGATGGACGGAAGGCTCAGCAGCA  
 CATAGAAAACGTGTTGGAAGCAACTGGAGTCAAGTAAGAGGAGTTTGAGCGGGACTGTAAGGAAGCCGAC  
 CGGGCACAGCAGTACTTCGAGAAAATGGACGCTGACATCAACGTGACCAAGGCGGATGTGAAAAAGGCAC  
 GACAACAAGCTCAGATACGCCAGCAAAATGGCAGAGGACAGCAAAGCAGATTACTCCTTAATCCTGCAGAG  
 ATTCACCAGGAGCAATGGGAATACTACCATACCCACATCCCCAACATCTCCAGAAAATACAAGAGATG  
 GAGGAGAGGCGGATTGTGCGTATTGGGGAGTCCATGAAGACGTACGCAGAGGTGGACCGGCGGTGATAC  
 CCATCATCGGGAAGTGCCTGGACGGGATAGTGAAGGCGGCCGAGTCTATCGACCAGAAAAACGACTCCCA  
 GCTGGTCTGAGAAGCCTATAAGTCAGGATTCGAGCCTCCTGGAGACATTGAATTCGAAGATTACACACAG  
 CCAATGAAACGCACAGTGTGAGACAACAGCCTTCCAGCTCCAAAGAAGGCAAGCCTGAGCTCAGATTTG  
 GCGGAAGTCCAGAGGCAAGCTCTGGCCATTCATCAAGAAAAACAAGCCTCCCCCTCCGCCCCCTGCCTC  
 TGCCCTCACCTCTGCTGTTCCCAACGGCCCCAGTCTCCCAAGCAGCCAAAGGAACCCCTCTCCACCCGC  
 TTCAACGAGTTCATGACCTCCAAACCCAAAATCCACTGCTCCGGAGCCTAAAGCGTGGGGGTGTACAC  
 CAGAAGACTTCAGCAACTTCCCACCTGAGCAGAGAAGGAAAAAATAACAACAGAAAGTTGACGATCTCAA  
 TAGAGAGATACAGAAGGAGACGGACCAGAGAGATGCCATCACAAAATGAAAGATGTGTACCTAAAGAAC  
 CCTCAGATGGGAGACCCAGCCAGCCTGGACCAGAAGCTCACCGAAGTCACCCAGAACATAGAGAACTGC  
 GGCTGGAGGCTCAGAAGTTTGAGGCCTGGCTGGCTGAGGTAGAAGGCAGACTCCAGCTCGGAGTGAGCA  
 GGCACGCCGGCAGAGTGGACTGTATGATGGCCAGACACACCAGACGGTCACTAAGTGTGCCAGGACCGG  
 GAGAGCCAGATGGTAGTTACACAGAGGAGCAAAGCCAGGAGAGCGAGCAAAAGTCTGGCCCCGGATT  
 TCGACGATGAATTTGATGATGAGGAGCCGCTTCCAGCCATAGGGACCTGCAAGGCCCTCTACACATTTGA  
 AGGTCAGAACGAAGGCACCATTTCGCTAGTTGAAGGAGAGACGCTGAGCGTGATTGAAGAGGACAAAGGC  
 GATGGGTGGACTCGCATCCGCAGAAATGAAGACGAGGAGGTTACGTCCCACCTTCTACGTCGAAGTCT  
 ATTTAGACAAAAACGCCAAAGTTCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001177650
- Insert Size:** 1569 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).

|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <u>NM_001177650.1, NP_001171121.1</u>   |
| <b>RefSeq Size:</b>           | 4395 bp   |
| <b>RefSeq ORF:</b>            | 1569 bp   |
| <b>Locus ID:</b>              | 14269   |
| <b>UniProt ID:</b>            | <u>Q80TY0</u>   |
| <b>Cytogenetics:</b>          | 2 B   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (5) has multiple differences, compared to variant 3. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon, compared to variant 1. The encoded protein (isoform e) is shorter when it is compared to isoform c.</p> |