

## Product datasheet for **MR225095**

### **Fnbp1 (NM\_001177650) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fnbp1 (NM_001177650) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fnbp1
Synonyms:	1110057E06Rik; 2210010H06Rik; FBP1; Fbp17
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>MR225095 representing NM\_001177650  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATGACTACGCCGGCAGCAGGAGTTCATCTCTGAGAACATGACGTCACAGATCACGGTGGACCTGA  
 TGCCTACGTTTCAGGAGCTGAAGCAGGAGAGAAATCGAACTTCCATGATGGACGGAAGGCTCAGCAGCA  
 CATAGAAACGTGTTGGAAGCAACTGGAGTCAAGTAAGAGGAGTTTGGAGCGGACTGTAAGGAAGCCGAC  
 CGGGCACAGCAGTACTTCGAGAAAATGGACGCTGACATCAACGTGACCAAGGCGGATGTGAAAAAGGCAC  
 GACAACAAGCTCAGATACGCCAGCAAAATGGCAGAGGACAGCAAAGCAGATTACTCCTTAATCCTGCAGAG  
 ATTCACCAGGAGCAATGGGAATACTACCATACCCACATCCCCAACATCTCCAGAAAATACAAGAGATG  
 GAGGAGAGGCGGATTGTGCGTATTGGGGAGTCCATGAAGACGTACGCAGAGGTGGACCGGCGGTGATAC  
 CCATCATCGGGAAGTGCCTGGACGGGATAGTGAAGGCGGCCGAGTCTATCGACCAGAAAAACGACTCCCA  
 GCTGGTCTGAGAAGCCTATAAGTCAGGATTCGAGCCTCCTGGAGACATTGAATTCGAAGATTACACACAG  
 CCAATGAAACGCACAGTGTGAGACAACAGCCTTCCAGCTCCAAAGAAGGCAAGCCTGAGCTCAGATTTG  
 GGGCAAGTCCAGAGGCAAGCTCTGGCCATTCATCAAGAAAAACAAGCCTCCCCCTCCGCCCCCTGCCTC  
 TGCCCTCACCTCTGCTGTTCCAAACGGCCCCAGTCTCCCAAGCAGCCAAAGGAACCCCTCTCCACCCG  
 TTCAACGAGTTCATGACCTCCAAACCCAAAATCCACTGCTCCGGAGCCTAAAGCGTGGGGGTGTACAC  
 CAGAAGACTTCAGCAACTTCCACCTGAGCAGAGAAGGAAAAAATAACAACAGAAAGTTGACGATCTCAA  
 TAGAGAGATACAGAAGGAGACGGACCAGAGAGATGCCATCACAAAATGAAAGATGTGTACCTAAAGAAC  
 CCTCAGATGGGAGACCCAGCCAGCCTGGACCAGAAGCTCACCGAAGTCAACCAGAACATAGAGAACTGC  
 GGCTGGAGGCTCAGAAGTTTGAGGCCTGGCTGGCTGAGGTAGAAGGCAGACTCCAGCTCGGAGTGA  
 GGCACGCCGCGCAGAGTGGACTGTATGATGGCCAGACACACCAGACGGTCACTAAGTGTGCCAGGACCGG  
 GAGAGCCAGATGGTAGTTACACAGAGGAGCAAAGCCAGGAGAGCGAGCAAGGTCCTGGCCCCGATT  
 TCGACGATGAATTTGATGATGAGGAGCCGCTTCCAGCCATAGGGACTGCAAGGCCCTCTACACATTTGA  
 AGGTCAGAACGAAGGCACCATTTCGATGTTGAAGGAGAGACGCTGAGCGTGATTGAAGAGGACAAAGGC  
 GATGGGTGGACTCGCATCCGCAGAAATGAAGACGAGGAGGTTACGTCCCCTCTCTACGTCGAAGTCT  
 ATTTAGACAAAAACGCCAAAGTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225095 representing NM\_001177650  
 Red=Cloning site Green=Tags(s)

MNDYAGQHEVISENMTSQITVDLMRYVQELKQERKSNFHDGRKAQQHIETCWKQLESSKRRFRDCKEAD  
 RAQQYFEKMDADINVTKADVEKARQQAQIRQMAEDSKADYSLILQRFNQEWEYHTHIPNIFQKIQEM  
 EERRIVRIGESMKTYAEVDRQVIPIIIGKCLDGIKAAESIDQKNSQLVVEAYKSGFEPGDI EFEDYTQ  
 PMKRTVSDNSLSSSKEGKPELRFGGKSRGKLWPFIKKNKPPPPPPASASPSAVPNGPQSPKQPKPLSHR  
 FNEFMTSKPKIHCFRSLKRGVTPEDFSNFPPEQRRKLLQKVVDDLNREIQKETDQRDAITKMKDVYLN  
 PQMGDPASLDQKLTQVQNIKLRLEAQKFEAWLAEVEGRLPARSEQARRQSGLYDGQTHQVTVNCAQDR  
 ESPDGSYTEEQSQESEHKVLAPDFDDEFDDEEPLPAIGTCKALYTFEGQNEGTISVVEGETLSVIEEDKG  
 DGWTRIRRNEDEEGYVPTS YVEVYLDKNAKGS

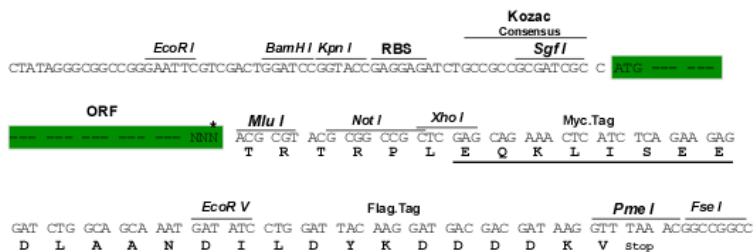
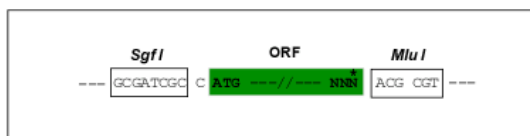
**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

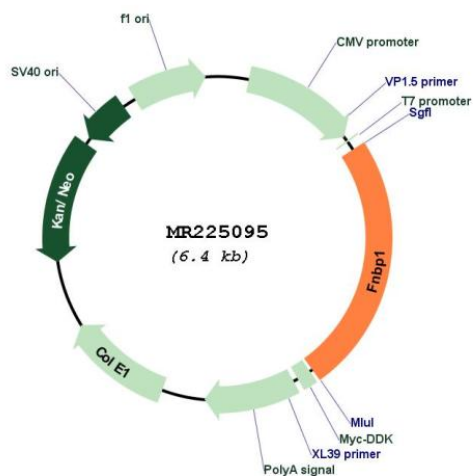
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


<b>ACCN:</b>	NM_001177650
<b>ORF Size:</b>	1566 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_001177650.1</a> , <a href="#">NP_001171121.1</a>
<b>RefSeq Size:</b>	4395 bp
<b>RefSeq ORF:</b>	1569 bp
<b>Locus ID:</b>	14269
<b>UniProt ID:</b>	<a href="#">Q80TY0</a>
<b>Cytogenetics:</b>	2 B
<b>MW:</b>	60.5 kDa
<b>Gene Summary:</b>	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]