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Product datasheet for MR225094

Fnbp1 (NM_001177649) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fnbp1 (NM_001177649) 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:

>MR225094 representing NM_001177649
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTGGGGCACTGAGCTCTGGGATCAGTTTGACAACTTGGAAAAACATACACAGTGGGGAATCGATA
TTCTTGAGAAATACATCAAGTTTGTCAAGGAGAGGACGGAGATTGAGCTCAGCTATGCCAAGCAACTCAG
GAATCTTTCAAAGAAATACCAACCTAAGAAGAACTCGAAGGAAGAGGAGGAGTACAAGTACACGGCTTGC
AAAGCCTTTCTTTCCACCCTGAATGAGATGAATGACTACGCCGGGCAGCACGAGGTCATCTCTGAGAACA
TGACGTCACAGATCACGGTGGACCTGATGCGCTACGTTCAGGAGCTGAAGCAGGAGAGGAAATCGAACTT
CCATGATGGACGGAAGGCTCAGCAGCACATAGAAACGTGTTGGAAGCAACTGGAGTCAAGTAAGAGGAGG
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TGACCAAGGCGGATGTGGAAAAGGCACGACAACAAGCTCAGATACGCCAGCAAATGGCAGAGGACAGCAA
AGCAGATTACTCCTTAATCCTGCAGAGATTCAACCAGGAGCAATGGGAATACTACCATACCCACATCCCC
AACATCTTCCAGAAAATACAAGAGATGGAGGAGAGGCGGATTGTGCGTATTGGGGAGTCCATGAAGACGT
ACGCAGAGGTGGACCGGCAGGTGATACCCATCATCGGGAAGTGCCTGGACGGGATAGTGAAGGCGGCCGA
GTCTATCGACCAGAAAAACGACTCCCAGCTGGTCGTAGAAGCCTATAAGTCAGGATTCGAGCCTCCTGGA
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CATAGAGAAACTGCGGCTGGAGGCTCAGAAGTTTGAGGCCTGGCTGGCTGAGGTAGAAGGCAGACTCCCA
GCTCGGAGTGAGCAGGCACGCCGGCAGAGTGGACTGTATGATGGCCAGACACACCAGACGGTCACTAACT
GTGCCCAGGACCGGGAGAGCAGCCCAGATGGTAGTTACACAGAGGAGCAAAGCCAGGAGAGCGAGCACAA
GGTCCTGGCCCCGGATTTCGACGATGAATTTGATGATGAGGAGCCGCTTCCAGCCATAGGGACCTGCAAG
GCCCTCTACACATTTGAAGGTCAGAACGAAGGCACCATTTCCGTAGTTGAAGGAGAGACGCTGAGCGTGA
TTGAAGAGGACAAAGGCGATGGGTGGACTCGCATCCGCAGAAATGAAGACGAGGAGGGTTACGTCCCCAC
TTCCTACGTCGAAGTCTATTTAGACAAAAACGCCAAAGGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

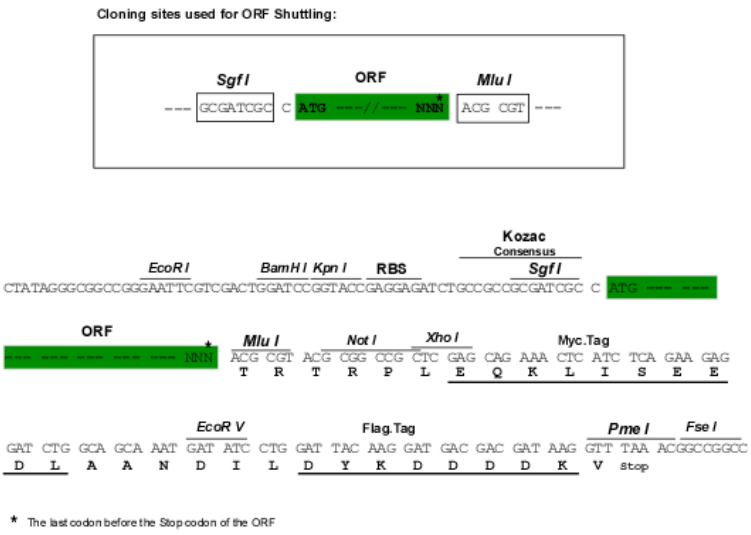
>MR225094 representing NM_001177649
Red=Cloning site Green=Tags(s)

MSWGTELWDQFDNLEKHTQWGIDILEKYIKFVKERTEIELSYAKQLRNLSKKYQPKKNSKEEEEYKYTAC
KAFLSTLNEMNDYAGQHEVISENMTSQITVDLMRYVQELKQERKSNFHDGRKAQQHIETCWKQLESSKRR
FERDCKEADRAQQYFEKMDADINVTKADVEKARQQAQIRQQMAEDSKADYSLILQRFNQEQWEYYHTHIP
NIFQKIQEMEERRIVRIGESMKTYAEVDRQVIPIIGKCLDGIVKAAESIDQKNDSQLVVEAYKSGFEPPG
DIEFEDYTQPMKRTVSDNSLSSSKEGKPELRFGGKSRGKLWPFIKKNKGVTPEDFSNFPPEQRRKKLQQK
VDDLNREIQKETDQRDAITKMKDVYLKNPQMGDPASLDQKLTEVTQNIEKLRLEAQKFEAWLAEVEGRLP
ARSEQARRQSGLYDGQTHQTVTNCAQDRESSPDGSYTEEQSQESEHKVLAPDFDDEFDDEEPLPAIGTCK
ALYTFEGQNEGTISVVEGETLSVIEEDKGDGWTRIRRNEDEEGYVPTSYVEVYLDKNAKGS

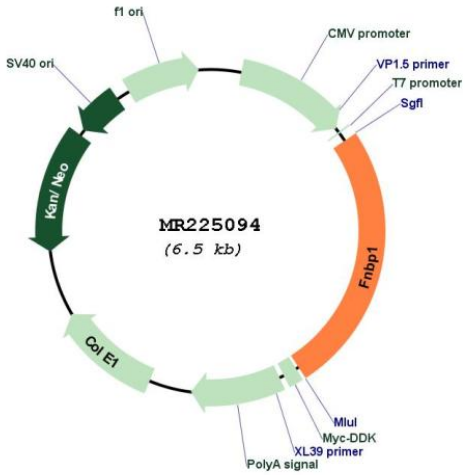
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001177649
ORF Size:	1653 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_001177649.1, NP_001171120.1
RefSeq Size:	4548 bp
RefSeq ORF:	1656 bp
Locus ID:	14269
UniProt ID:	Q80TY0
Cytogenetics:	2 B
MW:	64.7 kDa
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]