

Product datasheet for **MG225083**

Fnbp1 (NM_001038700) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fnbp1 (NM_001038700) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fnbp1
Synonyms:	1110057E06Rik; 2210010H06Rik; FBP1; Fbp17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225083 representing NM_001038700
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCTGGGCACTGAGCTCTGGGATCAGTTTGACAACCTGGAAAAACATACACAGTGGGGAATCGATA
 TTCTTGAGAAATACATCAAGTTTGTCAAGGAGAGGACGGAGATTGAGCTCAGCTATGCCAAGCAACTCAG
 GAATCTTTCAAAGAAATACCAACCTAAGAAGAACTCGAAGGAAGAGGAGGAGTACAAGTACACGGCTTGC
 AAAGCCTTTCTTCCACCCTGAATGAGATGAATGACTACGCCGGGCAGCAGGAGTCACTCTGAGAACA
 TGACGTCACAGATCACGGTGGACCTGATGCGCTACGTTACAGGAGCTGAAGCAGGAGAGGAAATCGAACTT
 CCATGATGGACGGAAGGCTCAGCAGCACATAGAAACGTGTTGGAAGCAACTGGAGTCAAGTAAAGAGGAGG
 TTTGAGCGGGACTGTAAAGAACCCGACCGGCACAGCAGTACTTCGAGAAAATGGACGCTGACATCAACG
 TGACCAAGCGGATGTGAAAAGGCACGACAACAAGCTCAGATACGCCAGCAAATGGCAGAGGACAGCAA
 AGCAGATTACTCCTTAATCCTGCAGAGATCAACCAGGAGCAATGGGAATACTACCATACCCACATCCCC
 AACATCTTCCAGAAAATACAAGAGATGGAGGAGAGGCGGATTGTGCGTATTGGGGAGTCCATGAAGACGT
 ACGCAGAGGTGGACCGGACGGTATACCCATCATCGGGAAGTGCCTGGACGGGATAGTGAAGCGGCCGA
 GTCTATCGACCAGAAAAACGACTCCCAGCTGGTCTAGAACCTATAAGTCAGGATTCGAGCCTCCTGGA
 GACATTGAATTCGAAGATTACACACAGCCAATGAAACGCACAGTGTGAGCAACAGCCTTCCAGCTCCA
 AAGAAGGCAAGCCTGAGCTCAGATTTGGCGCAAGTCCAGAGGCAAGCTCTGGCCATTATCAAGAAAAA
 CAAGGGTGTACACCAGAAGACTTCAGCAACTCCCACCTGAGCAGAGAAGGAAAAAACTACAACAGAAA
 GTTGACGATCTCAATAGAGAGATACAGAAGGAGACGGACCAGAGAGATGCCATCACAAAATGAAAGATG
 TGTACCTAAAGAACCCTCAGATGGGAGACCCAGCCAGCCTGGACCAGAAGCTCACCGAAGTCAACCCAGAA
 CATAGAGAAACTGCGGCTGGAGGCTCAGAAGTTTGAGGCCTGGCTGGCTGAGGTAGAAGGCAGACTCCCA
 GCTCGGAGTGAGCAGGCACGCCGCGCAGAGTGGACTGTATGATGGCCAGACACACCAGACGGTCACTAACT
 GTGCCAGGACCGGGAGAGCCCAGATGGTAGTTACACAGAGGAGCAAAGCCAGGAGAGCGAGCACAAGGT
 CCTGGCCCCGGATTTGACGATGAATTTGATGATGAGGAGCCGCTTCCAGCCATAGGGACCTGCAAGGCC
 CTCTACACATTTGAAGGTCAGAACGAAGGCACCATTTCCGTAGTTGAAGGAGAGACGCTGAGCGTGATTG
 AAGAGGACAAAGGCGATGGTGGACTCGCATCCGAGAAATGAAGACGAGGAGGGTTACGTCCCCACTTC
 CTACGTGAAGTCTATTTAGACAAAAACGCCAAAGGTTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG225083 representing NM_001038700
 Red=Cloning site Green=Tags(s)

MSWGTTELWDQFDNLEKHTQWIDILEKYIKFVKERTEIELSYAKQLRNL SKKYQPKKNSKEEEEYKYTAC
 KAFLSTLNEMNDYAGQHEVISENMTSQITVDLMRYVQELKQERKSNFHDGRKAQQHIETCWKQLESSKRR
 FERDCKEADRAQQYFEKMDADINVTKADVEKARQQAQIRQMAEDSKADYSLILQRFNQEQWEYHHTHIP
 NIFQKIQEMEERRIVRIGESMKTYAEVDRQVIPIIGKCLDGIKAAESIDQKNSQLVVEAYKSGFEPFG
 DIEFEDYTQPMKRTVSDNSLSSSKEGKPELRFGGKSRGKLWPFIKKNKGVTPEDFSNFPPEQRRKLQKQ
 VDDLNREIQKETDQRDAITKMKDVYLNPNQMGDPASLDQKLTEVTQNIKLRLEAQKFEAWLAEVEGRLP
 ARSEQARRQSGLYDQTHQVTNCAQDRESPDGSYTEEQSQESEHKVLAPDFDDEFDDEEPLPAIGTCKA
 LYTFEQNEGTVISVVEGETLSVIEEDKGDGWTRIRRNEDEEGYVPTSYVEVYLDKNAKGS

TRTRPLE – GFP Tag – V

Restriction Sites:

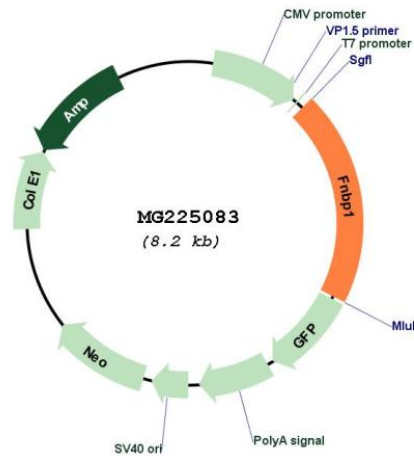
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



<i>EcoR I</i>	<i>BamH I</i>	<i>Kpn I</i>	RBS	Kozac Consensus	<i>Sgf I</i>	<i>Asc I</i>
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT						
<i>Hind III</i>	<i>Nhe I</i>	<i>Rsr II</i>	<i>Mlu I</i>	<i>Not I</i>	<i>Xho I</i>	GFP Tag
CAAGCTTAAGTACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC -----						
T R T R P L E M E S D - - -						
		<i>Pme I</i>	<i>Fse I</i>			
----- GAA GAA AGA GTT TAA ACGGCCGGCCCGGAGCT						
- - - E E R V Stop						

Plasmid Map:


ACCN:	NM_001038700
ORF Size:	1650 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:	<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:	NM_001038700.2 , NP_001033789.1
RefSeq Size:	4545 bp
RefSeq ORF:	1653 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]