

## Product datasheet for **MC228349**

### **Epn1 (NM\_001252454) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epn1 (NM_001252454) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epn1
Synonyms:	AA269831; lbp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228349 representing NM\_001252454  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGACCTCATCGCTGCGGCGTCAGATGAAGAATATCGTCCACAACACTACTCAGAGGCTGAGATCAAGG  
 TCCGCGAGGCCACAAGCAATGATCCCTGGGGCCCATCCAGCTCCCTCATGTCAGAGATTGCTGACCTCAC  
 CTAACAATGTTGTGGCCTTCTCCGAGATCATGAGCATGATCTGGAAGCGGCTCAATGACCACGGCAAGAAC  
 TGGAGGCACGTCTACAAGGCCATGACGTTGATGGAGTACCTCATCAAGACTGGCTCTGAGCGTGTATCAC  
 AACAGTGC AAAGAGAACATGTATGCTGTGCAGACGCTGAAGGACTTCCAGTATGTGGACCGTGTGGCAA  
 GGACCAGGGTGTGAATGTGCGGGAGAAGGCCAAGCAGCTGGTGGCTTTGCTGCGTGATGAGGATCGGCTC  
 CGGGAGGAGCGGCCACGCGCTCAAGACCAAGGAGAAGCTGGCAGACTGCCACGGCCTCCTCAGCAG  
 CCGTGGGCTCTGGACCACCTCCCGAGGCGGAGCAGGCATGGCCACAGAGCAGCGGGAGGAGGAGTTGCA  
 GCTCCAGCTGGCCCTGGCTATGAGCAAGGAGGAGGCCAGCCCGTCTGCGGCCCTGAGGATGAC  
 GTCAGCTCCAGCTGGCCCTTAGTTTGGCCGAGAGGAGCAGATAAGGAAGAGCGGATCCGTCGTGGGG  
 ATGACCTGAGGCTGCAGATGGCAATAGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCACTCT  
 CATGGATCTTGCTGATGTCTTACAACCCAGCGCCTCCACAGGCCTCAGACCCTTGGGGGGGCCGGCA  
 TCTGTGCTACTGCTGTCCCTGTGGCTGCTGCCGCTTCCAGACCCTTGGGGGGGACCTGCTGTCCCTCCAG  
 CTGCTGATCCTTGGGGTGGTGCAGCCCCACACCAGCCTCAGGGGATCCCTGGAGGCCTGCAGCCCTAC  
 AGGGCCCTCTGTTGATCCTTGGGGTGGGACCCAGCTCCTGCAGCTGGAGAGGGGCCACCCCTGACCCG  
 TGGGAAGCTCTGATGGTGGGGCTCCTGTGAGTGGGCCCCATCTTCTGACCCCTGGGCACCTGCCCGG  
 CTTTCTCAGACCCCTGGGGAGGCTCACCTGCAAAGCCAGCAGCAACGGCACTGCAGTTGGGGCTTGA  
 CACAGAGCCTGATGAGTTCTCAGACTTCGACCTCCGCACTGCCCTGCCAACCTCTGGGAGCAGCAG  
 GGGGAGTTGGAGTTGCTCGCAGGAGAGGTGCTGCTCGCAGCCCTGGGGATTTCGACATGAGTGGGGTTG  
 GGGGATCTCTGGCTGAGTCTGTGGGGAGTCCCCACCTGCTGCAACCCCAACTCCACACCCCAACACG  
 GAAGACTCCGGAGTATTCTAGGCCCTAATGCAGCCCTTGTGGATCTGGACTCGTGGTGGAGCCGACCA  
 GGCCCCACACCACAGGATCCAAGGCTTCAACCCATTCTTCCAAGCGGAGCTCCGCCACAGGCCCT  
 CTGTACCAATCCTTCCAGCCAGCACCCTGCAACGCTCACCTGAACCAGCTCCGTCTCAGTCTGT  
 GCCCCAGTTCTGGAGCGCCACCCACTACATCTCTCCTTGGTGGAGGCCCTGGCTGCCCCCATG  
 ATGCCCCAGTCCCCAGCCCCAACCTAACCCTTCTCCTA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001252454
- Insert Size:** 1728 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001252454.1](#), [NP\\_001239383.1](#)

**RefSeq Size:** 2411 bp

**RefSeq ORF:** 1728 bp

**Locus ID:** 13854

**UniProt ID:** [Q80VP1](#)

**Cytogenetics:** 7 A1

**Gene Summary:** Binds to membranes enriched in phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2). Modifies membrane curvature and facilitates the formation of clathrin-coated invaginations (By similarity). Regulates receptor-mediated endocytosis.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) lacks an alternate exon in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.