

## Product datasheet for **RN200322**

### **Epn2 (NM\_021852) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epn2 (NM_021852) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Epn2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >RN200322 representing NM\_021852  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACAACTTCATCTATTAGACGGCAGATGAAAAACATTGTGAACAATTACTCAGAGGCTGAAATCAAAG  
 TCCGGGAAGCCACTCCAATGACCCATGGGGCCATCCAGCTCTCTGATGACTGAGATTGCTGACCTGAC  
 CTATAATGTGGTAGCCTTCTCGGAGATCATGAGCATGGTTTGAAGCGGCTTAATGACCATGGCAAGAAC  
 TGGCGACATGTATAACAAGGCGCTGACACTGCTGGACTACCTTATCAAGACAGTTCTGAGCGGGTGGCC  
 AGCAGTGTGGGAGAACATCTTTGCTATACAGACTCTGAAGGACTTCCAGTACATTGACCGTGATGGCAA  
 GGACCAGGGTATTAATGTTTCGAGAGAAGTCAAAGCAACTGGTTGCTCTCCTCAAGGATGAGGAGCGGCTG  
 AAGTTGAGAGGGTTTCAAGCTCTCAAACCAAAGAGCGCATGGCTCAGGTGGCCACTGGTGTGGGCAGCA  
 ACCAGATCACCTTCGGTCGAGGCTCCAGCCAGCCCAACCTTTCTACCAGTACTCAGAGCAAGAGTATGG  
 CAAGGCTGGGGGCTCGCCGGCGTCTACCACGGCTCTACTTCCCACGAGTGTCTCTGAGTTGGAGCAG  
 GCCCGGCCACAGACCAGCGGAGAAGAGGAGCTGCAGCTGCAACTGGCACTTGCCATGAGCAGAGAGGTTG  
 CAGAACAGGAAGAAGCCCTCAGGCGGGGTGATGACCTCAGGTTGCAGATGGCTCTGGAAGAAAGCCGGAG  
 AGACACAGTAAAAGTTCCAAAAAGAAAGAGGTGAAAGCTTGCTGCAAGCCAGGCTCCCCTCGCAGCAG  
 ACTACCTTGTGGATTTAATGGATGCCCTCCCCAGCTCAGGCCCTGTTGCACAGAAAAGTGGCCGTGGA  
 GTACGGGAACCCCTGCCAACAGACCAACCCCTGGGGTGAACCGTGGCACCTGCCAACATTTCTGACCC  
 CTGGCCTTCATTTGGTACCAAGCCAGCTGCCTCTGTGGACCCCTGGGGAGTACCTACCACAGCCAGCATA  
 CAGTCTGTCCCAAGAAGTCAAGCCCTTGGGCAGCCTCACAGCAGCCTGCCTCCGATGCTGGAAAAACAG  
 CTGATGCCTGGGGGCTGCCAAGCCTAGTCTGCCTCAGGTCCTTTGAGCTCTTCAGTAATTTCAACGG  
 TACAGTTAAAGACGATTTTTCTGAATTCGACAACCTTCGAACTTCAAAAAACCAGCTGAGTCAGGGGCC  
 TCAGTACCACCCAGGACAGCAGAACCAGAGCCCTGACCTCTTTGAGTCTCAATCCTTGACTTCTGCCT  
 CGAGCAAGCCTAGCAGTCTCGGAAAACACCTGAGTCCTTCTGGGCCCAATGCAGCACTGGTGAACCT  
 GGACTCACTGGTACTAAGCCTAATCCACCAGCTCAGTCCCTCAATCCCTTCTGGCACCAGGTGCTGCT  
 GCTCCAGTCTGTCAATCCCTTTCAGGTCAACCAGCCCAAGCCACTGACACTGAACCAGCTTCGGGGAA  
 GCCCTGTCTGGGAAGCAGTGCCTCTTTGGGTCTGGTCCAGGGTGGAGACGGTGGCTCCCATGCCCTC  
 TGTAGCTCCACACTCAGCACTGGGGCCACTGGCTCCTCATTGACACCACTAGGCCCTACAGCAATGAAC  
 ATGGTAGGCAGTGTGGGTATTCCCCATCAGCAGCTCAGCCAGCGGGCACAAACCCCTTCTCTCTCT  
 AG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_021852
- Insert Size:** 1752 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).

**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\\_021852.3](#), [NP\\_068624.2](#)

**RefSeq Size:** 4053 bp

**RefSeq ORF:** 1752 bp

**Locus ID:** 60443

**Cytogenetics:** 10q22

**Gene Summary:** The protein encoded by this gene is a member of the epsin protein family. Epsin proteins are endocytic adaptors that function in the formation of clathrin-coated vesicles. Epsins contain a highly conserved N-terminal homology domain that binds phosphatidylinositol 4,5-bisphosphate in the plasma membrane, two or three ubiquitin interacting motifs, two clathrin-binding motifs, a cluster of aspartate-proline-tryptophan/phenylalanine repeats, and two or three asparagine-proline-phenylalanine tripeptide repeats at the C-terminus. In mouse, simultaneous knockout of this gene and its paralog results in embryonic arrest due to disruption of Notch signaling, suggesting a role as a specialized endocytic adaptor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]  
Transcript Variant: This variant (1) differs in its 5' UTR and lacks an alternate in-frame exon in the 5' coding region compared to variant 3. It encodes isoform a, which is shorter than isoform b. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.