**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RN200323

## Epn2 (NM_001033914) Rat Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Epn2 (NM_001033914) 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:**

>RN200323 representing NM_001033914
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAACTTCATCTATTAGACGGCAGATGAAAAACATTGTGAACAATTACTCAGAGGCTGAAATCAAAG
TCCGGGAAGCCACCTCCAATGACCCATGGGGCCCATCCAGCTCTCTGATGACTGAGATTGCTGACCTGAC
CTATAATGTGGTAGCCTTCTCGGAGATCATGAGCATGGTTTGGAAGCGGCTTAATGACCATGGCAAGAAC
TGGCGACATGTATACAAGGCGCTGACACTGCTGGACTACCTTATCAAGACAGGTTCTGAGCGGGTGGCCC
AGCAGTGTCGGGAGAACATCTTTGCTATACAGACTCTGAAGGACTTCCAGTACATTGACCGTGATGGCAA
GGACCAGGGTATTAATGTTCGAGAGAAGTCAAAGCAACTGGTTGCTCTCCTCAAGGATGAGGAGCGGCTG
AAGGTTGAGAGGGTTCAGGCTCTCAAAACCAAAGAGCGCATGGCTCAGGTGGCCACTGGTGTGGGCAGCA
ACCAGATCACCTTCGGTCGAGGCTCCAGCCAGCCCAACCTTTCTACCAGCTACTCAGAGCAAGAGTATGG
CAAGGCTGGGGGCTCGCCGGCGTCCTACCACGGCTCGCCAGAGGCCTCTCTGTGCCCCCAGCACCGCACA
GGGGCCATGCTGGGTCAGAGTGAGGAGCTGCAGCCACTGAGCCAGCGCCACCCCTGCCTGCCGCACCTGG
GCCTAGCCTCCCACCCAAATGGCGACTGGGCCCAGCCCTGCCTCACTTGTGACCGCGCAGCCCGAGCTAC
TTCCCCACGAGTGTCCTCTGAGTTGGAGCAGGCCCGGCCACAGACCAGCGGAGAAGAGGAGCTGCAGCTG
CAACTGGCACTTGCCATGAGCAGAGAGGTTGCAGAACAGGAAGAACGCCTCAGGCGGGGTGATGACCTCA
GGTTGCAGATGGCTCTGGAAGAAAGCCGGAGAGACACAGTAAAAGTTCCAAAAAAGAAAGAGGTGAAAGC
TTGCTGCAAGCCAGGCTCCCACTCGCAGCAGACTACCTTGTTGGATTTAATGGATGCCCTCCCCAGCTCA
GGCCCTGTTGCACAGAAAACTGAGCCGTGGAGTACGGGAACCCCTGCCAACCAGACCAACCCCTGGGGTG
GAACCGTGGCACCTGCGAACATTTCTGACCCCTGGCCTTCATTTGGTACCAAGCCAGCTGCCTCTGTGGA
CCCCTGGGGAGTACCTACCACAGCCAGCATACAGTCTGTCCCCAAGAACTCAGACCCTTGGGCAGCCTCA
CAGCAGCCTGCCTCCGATGCTGGAAAAACAGCTGATGCCTGGGGGGCTGCCAAGCCTAGTCCTGCCTCAG
GGTCCTTTGAGCTCTTCAGTAATTTCAACGGTACAGTTAAAGACGATTTTTCTGAATTCGACAACCTTCG
AACTTCAAAAAAACCAGCTGAGTCAGGGGCCTCAGTACCACCCCAGGACAGCAGAACCACGAGCCCTGAC
CTCTTTGAGTCTCAATCCTTGACTTCTGCCTCGAGCAAGCCTAGCAGTGCTCGGAAAACACCTGAGTCCT
TCCTGGGCCCCAATGCAGCACTGGTGAACCTGGACTCACTGGTGACTAAGCCTAATCCACCAGCTCAGTC
CCTCAATCCCTTCCTGGCACCAGGTGCTGCTGCTCCAGCTCCTGTCAATCCCTTTCAGGTCAACCAGCCC
CAGCCACTGACACTGAACCAGCTTCGGGGAAGCCCTGTCCTGGGAAGCAGTGCGTCCTTTGGGTCTGGTC
CAGGGGTGGAGACGGTGGCTCCCATGCCCTCTGTAGCTCCACACTCAGCACTGGGGGCCACTGGCTCCTC
ATTGACACCACTAGGCCCTACAGCAATGAACATGGTAGGCAGTGTGGGTATTCCCCCATCAGCAGCTCAG
CCAGCGGGCACAACCAACCCTTTCCTTCTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001033914

**Insert Size:** 1923 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_001033914.2, NP_001029086.1

**RefSeq Size:** 4344 bp

**RefSeq ORF:** 1923 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 clatherin-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 (2) lacks an alternate exon in the 5' UTR compared to variant 3. Variants 2 and 3 encode 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.