

Product datasheet for **MC228704**

Jph2 (NM_001205076) Mouse Untagged Clone

Product data:

| | |
|--------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Jph2 (NM_001205076) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Jph2 |
| Synonyms: | 1110002E14Rik; JP-2; Jp2 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



[View online »](#)

Fully Sequenced ORF: >MC228704 representing NM_001205076
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCGGGGCCGCTTTGACTTTGATGATGGCGGGCGTATTGTGGGGCTGGGAAGGGGAAAGGCAC
 ACGGGCACGGACTGTGCACCGGCCCAAGGGCCAGGGTGAATACTCGGGCTCCTGGAATTTGGCTTTGA
 AGTGGCAGGCGTCTATACCTGGCCCAAGTGGGAATACCTTTGAGGGATATTGGAGCCAGGGCAAACGACAT
 GGGCTTGGCATAGAGACCAAGGGGCGCTGGCTCTACAAGGGGAGTGGACGCATGGCTTTAAGGGGCGCT
 ACGGAATCCGGCAGAGCACAACAGTGGTGCCAAGTACGAGGGCACTTGAATAACGGCTACAGGACGG
 CTATGGCAGGAGACCTACGACAGCGGAGAACCTATCAAGGCCAATTCACCAACGGCATGCGCCATGGC
 TACGGTGTGCGCAAAGCGTGCCTACGGGATGGCAGTGGTGGTGCCTTCTCCGCTGCGCACTTCTCTGT
 CCTCGCTGCGCAGCGAGCACAGCAATGGAACGGTGGCTCCGGACTCACCGGCGGAGATGGGCCATGCT
 GCCTTCGCCCCAGTGCCTGCGCGGTGGTTTCGCGCTCACTCTGCTGGCCACAGCAGAGGGCGCGGACCC
 CAAGGGCTGTTACGCGTGGCACAACCTGCTGGGTGGGTCGCGCTCAGCAATCACGCACATCACTGGGCA
 GCCAGCGGAGCCGCTTGAAGCTTTCTCAAGAGCGAGCTGAGTTCGGAGCCAGCGATGCCGCATCCACTGG
 CAGCTGGCCGAGGGCGCTGAGGGCCCCGACGACGCGGCTGCGCCCTTCGATGCCGACATCGACGCCACC
 ACCACGGAAACCTACATGGGCGAGTGGAAAGCAAGCAAGCGCTCGGGCTTCGGCGTGAGCGAGCGTTCCA
 GCGGCTGCGCTACGAGGGCGAGTGGCTGGACAACCTGCGCCACGGCTACGGCCGACCCAGCTGCCCGA
 CGGCCACCGGAGGAGGCAAGTACCGCCACAATGTGCTGGTCAAGGGCACCAGCGCCGCTGCTGCCG
 CTCAAGAGCAGCAAGGTCCGCCAGAAGTGGAGCACGGGTGGAGGGCGCCAGCGCGCAGCAGCCATCG
 CGCGCAGAAGGCCGAGATTGCCGCTCCAGGACAAGCCATGCCAAAGCCAAGGCAGAGGCAGCAGAACA
 GGCTGCCCTGGCTGCCAACCAGGAGTCCAACATCGCCCGTACATTGGCCAAGGAGCTGGCTCCAGACTTC
 TACCAGCCAGGTCCGGAGTATCAGAAGCGTCCGCTGCTCCAGGAGATCCTGGAGAATCTGAGAGCTTGC
 TGGAGCCCCAGAGCGGGGTCTGGGCACCGGCTCCCGGAGCGGCCCGGGAAAGCCGAGCTGCATGA
 GCGCGAGACCCCGCAGCCGAGGGCGGACCCCGTCTCCGGCCGGGACGCCCCGCAACCCAAAGAGGCC
 CGGCCCGGAGCGTCAAAGGACGGCTGCTGAGTCCAGGCTCCTGGAACGGGGAGCCGGCGGAGAGGGCA
 GCCGGCCGCCACGCGTCCGATGGCGCCGCTCGTCGACGCCCGCGCCCCGCTCGGAGCACATGGC
 CATCGAGGCGCTGCAGCCGCGCCCGCGCCCTCGCAGGAGCCGAGGTAGCAATGTACCGCGCTACCAT
 AGCTACGCGTGCACCGGGCCACCCGAGCCTCCGCCCTGGAGGATGAGCAGGAGCCGAGCCGGAGC
 CCGAGCCCGAGTCCGGCGATCCGACTCGGCGCCCCGCTCCCGCTCTCCGCCACCGTCCCGGAGGAGGA
 GCCCCTGCGCCGGAAGCCCGTGCCTGCCAAGCAAGCCACTCTGGAGCCCAAGCCATCGTCCCCAAA
 GCAGAGCCCAAGGCCAAGGCGCGCAAGACAGAGGCCCGAGGACTGAGCAAGGCCGGTGCCAAGAAGAAG
 GCCGTAAGGAAGTGGCGCAGGCCAAGGAGGCCGAGGTGGAGGTGGAGGAGGTACCCAACACCGTCTCAT
 CTGATGGTGATCTTGTGAACATCGGCTGGCTATCCTATTTGTTACCTCTGACT**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001205076

Insert Size: 2091 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: | <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: | <u>NM_001205076.1</u> , <u>NP_001192005.1</u> |
| RefSeq Size: | 4155 bp |
| RefSeq ORF: | 2091 bp |
| Locus ID: | 59091 |
| UniProt ID: | <u>Q9ET78</u> |
| Cytogenetics: | 2 H3 |
| Gene Summary: | <p>Junctophilin-2: Membrane-binding protein that provides a structural bridge between the plasma membrane and the sarcoplasmic reticulum and is required for normal excitation-contraction coupling in cardiomyocytes (PubMed:10949023, PubMed:19095005, PubMed:21339484). Provides a structural foundation for functional cross-talk between the cell surface and intracellular Ca(2+) release channels by maintaining the 12-15 nm gap between the sarcolemma and the sarcoplasmic reticulum membranes in the cardiac dyads (PubMed:10949023, PubMed:19095005, PubMed:21339484). Necessary for proper intracellular Ca(2+) signaling in cardiac myocytes via its involvement in ryanodine receptor-mediated calcium ion release (PubMed:10949023, PubMed:19095005, PubMed:21339484). Contributes to the construction of skeletal muscle triad junctions (PubMed:10949023). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p> |