

Product datasheet for **MC220586**

Jph2 (NM_021566) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jph2 (NM_021566) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Jph2
Synonyms:	1110002E14Rik; JP-2; Jp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220586 representing NM_021566
Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGGGGCGCTTTGACTTTGATGATGGCGGGCGTATTGTGGGGCTGGGAAGGGGAAAGGCAC
ACGGGCACGACTGTGCACCGGCCCAAGGGCCAGGGTGAATACTCGGGCTCCTGGAATTTGGCTTTGA
AGTGCCAGGCGTCTATACCTGGCCAGTGGGAATACCTTTGAGGGATATTGGAGCCAGGGCAAACGACAT
GGGCTTGGCATAGAGACCAAGGGGCGCTGGCTCTACAAGGGGAGTGGACGCATGGCTTTAAGGGGCGCT
ACGGAATCCGGCAGAGCACAACAGTGGTGCACAGTACGAGGGCAGTGGAAACCGGCCTACAGGACGG
CTATGGCAGGAGACCTACGACAGCGGAGAACCTATCAAGGCCAATCACCAACGGCATGCGCCATGGC
TACGGTGTGCGCAAAGCGTGCCTACGGGATGGCAGTGGTGGTGGTTCCTCGCTGCGCACTTCTCTGT
CCTCGCTGCGCAGCGAGCACAGCAATGGAACGGTGGCTCCGACTACCGGCGGCAGATGGGCCATGCT
GCCTTCGCCCCAGTGCCTGCGCGGTGGTTTCGCGCTCACTCTGCTGGCCACAGCAGAGGCCGCGCGACCC
CAAGGGCTGTTACGCGTGGCACACTGTGGGTGGCTGCGACGCTCAGAATCACGCACATCACTGGGCA
GCCAGCGAGCCGCTTGAGCTTTCTCAAGAGCGAGCTGAGTTCGGAGCCAGCGATGCCGCATCCACTGG
CAGCTGGCCGAGGGCGCTGAGGGCCCCGACGACGCGGCTGCGCCCTTCGATGCCGACATCGACGCCACC
ACCACGGAAACCTACATGGGCGAGTGGAAAGCAACAAGCGCTCGGGCTTCGGCGTGAGCGAGCGTTCCA
GCGGCCTGCGCTACGAGGGCGAGTGGCTGGACAACCTGCGCCACGGCTACGGCCGACACCGCTGCCCGA
CGGCCACCGCAGGAGGGCAAGTACCGCCACAATGTGCTGGTCAAGGGCACCAGCGCCGCTGTGCCG
CTCAAGAGCAGCAAGGTCGCCAGAAGGTGGAGCACGGGTGGAGGGCGCCAGCGCGCAGCAGCCATCG
CGCGCCAGAAGGCCGAGATTGCCGCTCCAGGACAAGCCATGCCAAAGCCAAGGCAGAGGCAGAGAACA
GGCTGCCCTGGCTGCCAACCAGGAGTCCAACATCGCCCGTACATTGGCCAAGGAGCTGGCTCCAGACTTC
TACCAGCCAGGTCCGGAGTATCAGAAGCGTGGCTGCTCCAGGAGATCCTGGAGAATCTGAGAGCTTGC
TGGAGCCCCAGAGCGGGGTCTGGGCACCGCCTCCCGAGCGGCCCGGGAAAGCCGAGCTGCATGA
GCGCGAGACCCCGCAGCCGAGGGCGGACCCCGTCTCCGGCCGGGACGCCCGCAACCAAGAGGCC
CGGCCCGGAGCGTCAAAGGACGGCTGCTGAGTCCAGGCTCCTGGAACGGGGAGCCCGCGGAGAGGGCA
GCCGGCCCGCACGCCGTGGATGGCGCCGCTGTCGAGCCCGCGCGCCCGCTCGGAGCACATGGC
CATCGAGGCGCTGCAGCCCGCCCGCGCCCTCGCAGGAGCCGAGGTAGCAATGTACCGCGCTACCAT
AGCTACGCGTGGCACCAGGGCCACCCGAGCCTCCGCCCTGGAGGATGAGCAGGAGCCGAGCCGAGC
CCGAGCCCGAGGTCCGGGATCCGACTCGGCGCCCGTCCCGCTCTCCGCCACCGTCCCGGAGGAGGA
GCCCCCTGCGCCGCAAGCCCGTGCCTGCCAAGCAAGCCACTCTGGAGCCCAAGCCATCGTCCCCAAA
GCAGAGCCCAAGGCCAAGGCGCGCAAGACAGAGGCCCGAGGACTGAGCAAGGCCGGTGCCAAGAAGAAG
GCCGTAAGGAAGTGGCGCAGGCGAAGGAGGCCGAGGTGGAGGTGGAGGAGGTACCCAACCCGCTCAT
CTGTATGGTGATCTTGTGAACATCGGCCTGGCTATCCTATTTGTTACCTCTGACTTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1868_f10.zip

Restriction Sites: SgfI-RsrII

ACCN: NM_021566

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).

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_021566.1</u> , <u>NP_067541.1</u>
RefSeq Size:	2681 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 (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>