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Product datasheet for RN211227

Jph2 (NM_001037974) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jph2 (NM_001037974) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Jph2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>RN211227 representing NM_001037974
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGGGGGCCGCTTTGACTTTGATGATGGCGGGGCGTATTGTGGGGGCTGGGAAGGGGGGAAGGCAC
ATGGGCACGGACTGTGCACCGGCCCTAAGGGCCAAGGTGAATACTCGGGCTCCTGGAATTTTGGCTTTGA
AGTGGCAGGCGTCTACACCTGGCCCAGTGGGAATACCTTTGAGGGATATTGGAGCCAGGGCAAACGACAT
GGACTTGGCATAGAGACCAAGGGGCGATGGCTCTACAAGGGGGAGTGGACACATGGCTTCAAGGGGCGCT
ACGGAATCCGGCAGAGCACAAACAGTGGTGCCAAGTACGAGGGCACTTGGAATAACGGCCTACAGGATGG
TTATGGCACGGAGACCTATGCAGACGGAGGGACCTACCAAGGCCAATTCACCAACGGCATGCGGCATGGC
TACGGCGTGCGCCAAAGCGTGCCCTACGGGATGGCAGTGGTGGTGCGCTCCCCGCTGCGCACCTCGCTGT
CCTCGCTGCGCAGCGAGCACAGCAATGGCACAGTGGCTCCAGACTCGCCGGCGGCAGACGGGCCCACGCT
GCCCTTGCCCCCGGTGCCGCGTGGTGGCTTCGCGCTCAGCCTACTGGCCACGGCCGAGGCTGCGCGTCCC
CCAGGGCTGTTCACACGAGGCGCACTGCTGGGTCGACTGCGACGCTCAGAGTCACGCACGTCGCTGGGCA
GCCAGCGCAGCCGCTTGAGCTTCCTCAAGAGCGAGCTGAGCTCAGGAGCCAGCGATGCCGCGTCCACCGG
CAGCCTGGCCGAAGGCGCCGAGGGCCCTGACGACGCGGCTGCACCCTTCGACGCCGACATCGACGCCACC
ACCACGGAGACCTACATGGGCGAGTGGAAGAACGACAAACGCTCGGGCTTCGGTGTGAGCGAACGTTCCA
GCGGCCTTCGCTACGAGGGCGAGTGGCTGGACAACCTGCGCCACGGTTACGGTCGCACCACGCTGCCCGA
CGGCCACCGCGAGGAGGGCAAGTACCGCCACAATGTGCTGGTCAAGGGCACCAAGCGCCGCGTGCTGCCG
CTCAAGAGCAACAAGGTTCGCCAGAAGGTGGAGCATGGGGTCGAGGGTGCGCAACGCGCAGCAGCCATTG
CGCGCCAGAAGGCTGAGATTGCTGCCTCCAGGACAAGCCATGCCAAAGCCAAGGCCGAGGCAGCAGAACA
GGCTGCCCTGGCTGCCAACCAGGAGTCCAACATTGCCCGTACATTGGCCAAGGAGCTGGCTCCAGACTTC
TACCAGCCAGGTCCGGAGTATCAGAAGCGTCGGCTGCTCCAGGAGATCCTGGAGAACTCAGAGAGCCTGC
TGGAGCCCCGGGAGCGGGGCCCGGGCACCGGCCTCCCCGAACGGCCCCGGGAAAGCCCACAGCTGCATGA
GCGCGAGACCCCGCAGCCGGAGGGCGGACCCCCTTCCCCGGCCGGAACGCCCCCGCAACCCAAGAGACCC
CGGCCGGGATCGTCAAAGGACGGTCTGCTGAGTCCGGGTGCCTGGAACGGCGAGCCCGGTGGAGAGGGCA
GCCGGCCCGCCACGCCATCGGATGGCGCCGGCCGTCGTAGCCCCGCGCGTCCGGCTTCGGAGCACATGGC
CATCGAGGCGCTGCAGCCACCGCCCGCGCCCTCGCGGGAGCCTGAGGTGGCACTGTACCGCGGTTACCAC
AGCTACGCTGTGCGCACCGGGCCACCCGAGCCCCCGCCCTTGGAGGATGAGCCCGAGCCCGAGCCCGAGG
TCCCGCGATCCGACTCGGAGCCCCCGTCCCCCGTCTCCGCCACGGTCCAGGAAGAGGAGTCCCCTGCGCC
GCGAAGCCGGGTGCCCGCCAAGCCCGCCACCTTGGAGCCCAAGCCCATAGTCCCCAAAGCCGAGCCCAAG
GCCAAGGCGCGCAAGACAGAGGCCCGCGGGCTGAGCAAGGCGGGTGCCAAGAAGAAGGGCCGGAAAGAAG
TGGCACAGGAGGCCGAGGCCGAGGTGGAGGTAGAGGAGGTCCCCAACACCGTCCTCATCTGTATGGTGAT
CCTGCTGAACATCGGCCTGGCTATCCTATTCGTTCACCTCCTGACTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001037974

Insert Size: 2079 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_001037974.1, NP_001033063.1
RefSeq Size:	2127 bp
RefSeq ORF:	2079 bp
Locus ID:	296345
UniProt ID:	Q2PS20
Cytogenetics:	3q42
Gene Summary:	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. 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. Necessary for proper intracellular Ca(2+) signaling in cardiac myocytes via its involvement in ryanodine receptor-mediated calcium ion release. Contributes to the construction of skeletal muscle triad junctions.[UniProtKB/Swiss-Prot Function]