

## Product datasheet for TP520411

### Jph2 (NM\_021566) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse junctophilin 2 (Jph2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR220411 representing NM_021566 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MSGGRFDFDDGGAYCGGWEGGKAHGHGLCTGPKGQGEYSGSWNFGFEVAGVYTWPSGNTFEGYWSQGKRH GLGIETKGRWLYKGEWTHGFKGRYGRQSTNSGAKYEGTWNNGLQDGYGTETYADGGTYQGQFTNGMRHG YGVRSVPYGMVVVRSPLRTSLSSLRSEHSNGTVAPDSPAADGPMPLPSPVPRGGFALTLLATAEAARP QGLFTRGTLGRLRRSESRSLGSQRSLSFLKSELSSGASDAASTGSLAEGAEGPDDAAAPFDADIDAT TTETYMGEWKNDKRSGFGVSRSSGLRYEGEWLDNLRHGYGRITLDPDGHREEGKYRHNVLVKGTKRRVLP LKSSKVRQKVEHGVGAQRAAAIARQKAEIAASRTSHAKAKAEAAEQAALANQESNIARTLAKELAPDF YQGPPEYQKRRLLQEILENSESLEPPERGLGTGLPERPRESPQLHERETPQPEGPPSPAGTPPQPKRP RPGASKDGLLSPGSWNGEPGGEGSRPATPSDGAGRRSPARPASEHMAIEALQPPPAPSQEPEVAMYRGYH SYAVRTGPPEPPPLEDEQEPEPEPEVRRSDSAPPSPVSATVPEEEPPAPRSPVPAKQATLEPKPIVPK AEPKAKARKTEARGLSKAGAKKKGRKEVAQAKEAEVEVEVPNTVLICMILLNIGLAILFVHLLT  <b>SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	75.1 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_067541](#)

Locus ID: 59091

UniProt ID: [Q9ET78](#)

RefSeq Size: 2681

Cytogenetics: 2 H3

RefSeq ORF: 2088

Synonyms: 1110002E14Rik; JP-2; Jp2

**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 (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]