

Product datasheet for **MR223391**

Jph3 (NM_020605) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jph3 (NM_020605) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Jph3
Synonyms:	JP-3; Jp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR223391 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGTGGGGTAGGTTTAATTTTACGATGGAGGTCCTACTGCGGAGGCTGGGAGGACGGCAAGG
 CGCACGGCCATGGCGTCTGCACCGGCCGAAGGGCCAGGGCGAATACACCGGCTCGTGGAGCCACGGCTT
 TGAGGTGCTGGGCGTCTACACCTGGCCAAGCGGCAACACGTACCAAGGCACCTGGGCGCAGGGCAAGCGC
 CACGGCATCGGCCTGGAGAGCAAGGGGAAGTGGGTGTACAAGGGCGAGTGGACGCACGGATTTAAGGGGC
 GCTACGGGTGCGGGAGTGCACGGGCAACGGAGCCAAATACGAAGGGACCTGGAGCAACGGACTGCAGGA
 TGGCTACGGCACGGAGACCTACTCGGATGGAGGAACGTATCAGGGCCAATGGGTTGGTGGCATGCGCCAG
 GGCTACGGTGTGCGGCAGAGTGTCCCTTATGGCATGGCCGCAGTCATCCGTTCCGCCCTGAGGACCTCCA
 TCAACTCCCTGCGCAGCGAGCACACCAACGGGGCGGCACTGCACCCGGACGCCTCCCGGCAGTGGCCGG
 CAGTCCGGCCGTGTCCCGTGGTGGCTTCGTGCTGGTGGCCACAGTGACTCGGAGATCCTCAAGAGCAAG
 AAGAAGGGACTGTTCCGGCGCTCGCTGCTGAGCGGCCTGAAGCTACGCAAGTCTGAGTCCAAGAGCAGCC
 TGGCCAGCCAGCGCAGCAAGCAGAGCTCCTCCGACGCGAGGCCGGGAATGAGCACCGTGAGCTCCACGGC
 CAGCGACATCCACTCCACCATCAGCCTGGGCGAGGCCGAGGCTGAGCTGGCGGTCAATTGAGGACGACATC
 GACGCCACTACCACCGAGACCTACGTGGGTGAATGGAAGAACGACAAACGCTCGGGCTTCGGTGTGAGCC
 AGCGCTCGGACGGGCTTAAGTATGAGGGCGAGTGGGTGAGCAACCGCCGGCATGGGTACGGGTGCATGAC
 TTTCCCGACGGCACCAAGGAGGAGGGGAAGTACAAGCAGAACGTGCTCGTGAGCGGCAACGCAAGAAT
 CTCATCCCGCTGCGTGCCAGCAAGATCCGGGAGAAGGTGGACCGGGCCGTGGAGGCAGCCGAGAGGGCGG
 CCACCATCGCCAAGCAGAAAGCCGAGATCGTGCCTCCAGGACCTCCCACTCAGGGCCAAAGGTGAGGC
 AGCACTTACTGCGGCTCAGAAAGCCAGGAGGAAGCGCGGATCGCCAGGATCACTGCCAAAGAGTTCTCT
 CCTCCTTCCAGCACAGGAAAACGGGCTTGAGTACCAGAGGCCAAAGCACAGATGTCCTGCGATGATA
 TCGAGGTGCTCTCACCGGGACACCCCTACAGCAGGAGAGCCCGAGCTGTACCGAAAGGGCACCACCCC
 TTCTGATCTGACCCCTGACGACAGTCCCCTGCAGAGCTTCCCGCCAGCCCCACATCTACCCCTCCGCCA
 GCTCCTGCCTCCAGGACCAAGATGGCCACTTCTCCAGGCAGGTCTCCGTGGACGAGGAGCGAAGCGGGG
 ACATCCAGATGCTCCTCGAGGGCCGCGGAGGGGACTATGCCCGCAACAGCTGGGGCGAGGAGAAGGCTGG
 GGCTCTAGGGGTATCCGCAGCGGTGCCCTACGCAGCGGCCAGCCACTGAGGACTTCCGCACCCGGGGC
 TCAGGCCACAAGCAGCCTGGGAACCCAAAGCCCCGGGAGCGGCGGACGGAGTCCCCACCCAGTTTTCAT
 GGACTTCCACCACCGGGCAGGCAATCCCTGTTCTGGGGGCCCAAGCTGCTAGAGCCAGATGAGGAGCA
 GCTGAGCAACTACAAGCTGGAGATGAAGCCCTTACTGAGGATGGATGCCTGTCCACAGGATACGCACCCA
 CAGAGACGGCGTCATAGCCGGGGTCTGGGGGGGACAGGGGCTTCGGGCTACAGAGACTGAGGTCCAAGT
 CCCAAAACAAGGAGAACCCTTAGGCCAGCCTCCTCTGCAGAACCCAGGTGCAGAACTCGAGAGCCTGCG
 GCTGGGGGACCGGCCGAGCCCCGTGCTGCTGCGTTGGGACCTGACCTTCTCCCCACCCAGAAAGTCCCTG
 CCTGTTGCACTCGAGTCTGACGAGGAGACTGGAGATGAGCTCAAGTCCAGCACGGGCTCAGCTCCCATCT
 TGGTCGTCATGGTGATCCTGCTCAACATTGGAGTCGCCATTTTGTATTAACTTTTTCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223391 protein sequence
Red=Cloning site Green=Tags(s)

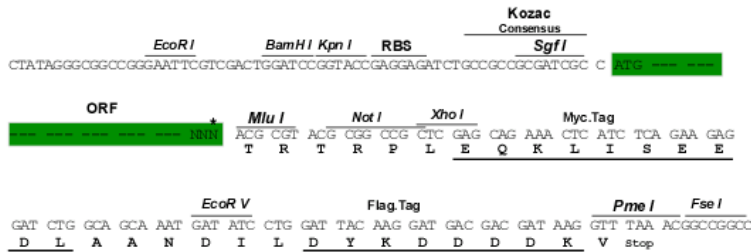
MSSGGRFNFDDGGSYCGGWEDGKAHGHGCTGPKGQGEYTGWSHGFVFLGVYTWPSGNTYQGTWAQGKR
 HGIGLESKGGKVVYKGEWTHGFKGRYGVRECTGNGAKYEGTWSNGLQDGYGTETYSDDGTYQGQWVGGMRQ
 GYGVRRQSVYPYGMAAVIRSPRLRTSINSLRSEHTNGAALHPDASP AVAGSPAVSRGGFVLVAHSDSEILKSK
 KKGLFRRSLLSGLKLRKSEKSSLASQRSKQSSFRSEAGMSTVSSSTASDIHSTISLGEAEAEAVIEDDI
 DATTTETYYVGEWKNDKRSQSGFVVSQRSDGLKYEGEWVSNRRRHGYGCMTPFDGTKEEGKYKQNVLVSGKRKN
 LIPLRASKIREKVDRAVEAAERAATIAKQKAEIAASRTSHSRAKAEAAAL TAAQKAQEEARITAKEFS
 PSFQHRENGLEYQRPKHQMSCDDIEVLSTGTPLQQESPELYRKGTTPSDLTPDSSPLQSFASPTSTPPP
 APASRTKMAHFSRQVSVDEERSGDIQMLLEGRGGDYARNSWGEEKAGASRGIRSGALRSGQPTEDFRTRG
 SGHKQPGNPKPRERRTESPTTFSWTSHHRAGNPCSGGPKLLEPDEEQLSNYKLEMKPLLRMDACPQDTHP
 QRRRHSRAGGDRGFLQRLRSKSQNKENLRPASSAEPTVQKLESLRLGDRPEPRLLRWDLTFSPQKSL
 PVALESDEETGDELKSSGAPILVVMVILLNIGVAILFINFFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_020605

ORF Size: 2235 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_020605.3](#), [NP_065630.1](#)

RefSeq Size: 3903 bp

RefSeq ORF: 2235 bp

Locus ID: 57340

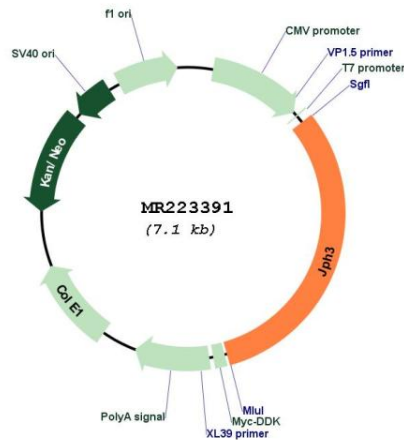
UniProt ID: [Q9ET77](#)

Cytogenetics: 8 E1

MW: 81.2 kDa

Gene Summary: Junctophilins contribute to the formation of junctional membrane complexes (JMCs) which link the plasma membrane with the endoplasmic or sarcoplasmic reticulum in excitable cells. Provides a structural foundation for functional cross-talk between the cell surface and intracellular calcium release channels. JPH3 is brain-specific and appears to have an active role in certain neurons involved in motor coordination and memory.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223391