

## Product datasheet for **MC219789**

### Jph4 (NM\_177049) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Jph4 (NM_177049) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Jph4
Synonyms:	9330157P13Rik; JP-4; JPHL1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219789 representing NM\_177049  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTC~~CCCCGGGGCAAGTTCGACTTTGACGACGGGGCTGCTACGTGGGGGGCTGGGAGCGGGGCGGG~~  
 CACATGGCTACGGCGTGTGCACCGGGCCGGCGCCAGGGAGAGTACAGCGGCTGCTGGGCTCACGGCTT  
 CGAGTCGCTGGGTGTCTTACGGGGCCGGCGGACACAGTTACCAGGGCCACTGGCAGCAGGGCAAGCGC  
 GAAGGGCTGGGCGTGGAGCGCAAGAGCCGCTGGACCTACCGCGCGAGTGGCTGGGCGGGCTGAAGGGG  
 GCAGCGGCGTATGGGAGAGCGTGTCCGGCTGCGCTACGCCGGGCTTGGAAAGGACGGCTTCCAGGACGG  
 CTACGGCACCGAGACCTACTCGGATGGAGGCATTACCAAGGCCAGTGGCAAGCCGGGAAACGCCACGGC  
 TACGGGGTGC~~CCAAAGTGTACCCTACCACCAGGGCGGCTTCTGCGCTACCCCCCGCACCTCCCTGG~~  
 ACTCCGGCCACAGCGACCCCGACGCCCTCCACCCCTACCCCTACCAGGAGATGAAGGAGGCAGCCC  
 AGCCTCCGGCTCCCGAGGCGGCTTCGTGCTGGCGGGGCCAGGGGACGCCAGCGGGCGTCTCCCGTAAG  
 CGACCCACAGCAGAGTGGATTCTCCGCCGTTCACTGCTGCTAGCGGGCTCCGGGCTGGTGGGCGCC  
 GCAGCTCCCTGGGCGAGCAAGAGGGGATCTCTACGCAGCGAGGTGAGCAGCGAAGTGGGCAGTACAGGACC  
 CCCGGGCTCCGAGGCCAGCGGGCCCCAAATCCCAGCTCCACCTGCCCTCATCGAGGGCTCAGCCACTGAG  
 GTGTACGCCGGTGTAGTGGCGTGGGACCGGCGCAGTGGCTATGGAGTGTAGCCAGAGATCCAACGGGCTGC  
 GCTACGAAGGCGAGTGGCTGGGCAACCGACGCCACGGATACGGGCGCACCCCGGCCGATGGCTCCCG  
 TGAGGAGGGCAAGTACAAGCGTAACCGGCTGGTACACGGGGGACGTGTCCGCAGCCTCTGCCTCTGGCC  
 CTTAGACGGGGCAAAGTCAAGGAGAAAGTGGACAGGGCTGTGCAAGGTGCCCGTCGAGCTGTGAGTGTG  
 CCCGCCAGCGCCAGGAAATTGCGGCTGCCAGGGCAGCAGACGCCCTCTAAAAGCAGTGGCAGCCAGCAG  
 CGTCGCGGAGAAGGCTGTGGAGGCTGCGCGGATGGCCAAGCTGATAGCCCAAGATCTACAACCCATGTTA  
 GAGGCCCCAGGCCGAGACCCAGACAGGACTCAGGAGTTCTGACACAGAGCCTTTGGATGAGGACAGCC  
 CTGGGGTATACGAGAATGGACTGACCCCTCAGAGGGCTCTCCGGAACACCCAGCAGCCCCGCCTCCTC  
 CCACCAACCTTGGCGAGCCCTGCCTGCCGGAGTCCACTGCCTCTGGAGGGAAGTGGGGCCCTTCTCC  
 AGCCCTAAAGCTTGGCCCGAGGAGTGGGGGGTCTGGTGTAGCAGGCAGAGGAAGTGGCTATGAGG  
 CTGAGGATGAGGCTGGGGTGCAGGGTCCAGGACCAAGAGATGGTCCCCACTTCTCGGAGGCTGCAGTGA  
 CAGTTCAGGAAGTCTTCGAGAGGAGGAGGGGAAGACGAAGATCCTTGGCCCAACTGAGGGCCCCAGGA  
 GGCTCAGAGTCTGAGCCTGTACCACGCCAGTTTTGAGGGCCTGTCTTCAAGGGTCTGATGCTGGGT  
 GCCTGACAGAAGAGGTTGAGGAGCCTGCTCCACCGAGAGGCCTGCCAGCCGGGAGCTGCCAACCCCT  
 GGTGGTGGGAGCCGTGGCCTGTGTGACCTCAGCCTGGCCTTCTGTTCTCCAGCTCCTCACCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_177049

**Insert Size:** 1887 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\\_177049.5](#), [NP\\_796023.2](#)

**RefSeq Size:** 4489 bp

**RefSeq ORF:** 1887 bp

**Locus ID:** 319984

**UniProt ID:** [Q80WT0](#)

**Cytogenetics:** 14 C3

**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. JPH4 is brain-specific and appears to have an active role in certain neurons involved in motor coordination and memory.[UniProtKB/Swiss-Prot Function]