

## Product datasheet for **RN215619**

### **Jph4 (NM\_001003711) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Jph4 (NM_001003711) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Jph4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN215619 representing NM\_001003711  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCATGTCCCCCTGGGGCGCAAGTTGCAGTTTACGACACGGGGGCTGCTACGTGGGGGGCTGGGAGGCGG  
GGCGGGACATGGCTACGGCGTGTGCACCGGGCCCGGCGCCAGGGAGAGTACAGCGGCTGCTGGGCTCA  
CGGCTTCGAGTCGCTGGGTGTCTTCACGGGGCCCGGCGGACACAGTTACCAGGGCCACTGGCAGCAGGGC  
AAGCGCAAGGGCTGGGCGTGGAGCGCAAGAGCCGCTGGACCTACCGCGCGAGTGGCTGGGCGGGCTGA  
AGGGGCGCAGCGGCGTGTGGGAGAGCGTGTCCGGCCTGCGCTACGCCGGGCTCTGGAAGGACGGCTTCCA  
GGACGGCTACGGCACCGAGACCTACTCCGATGGAGGCATTACCAAGGCCAGTGGCAAGCCGAAAAACGC  
CATGGCTACGGGTACGCCAGAGTGTACCTACCACAGCGCGGCTTCTGCGCTACCCCGCCGACCT  
CCCTGGACTCCGGCCACAGCGACCCCGACGCCCTCCACCCCTACCCCTACCAGGAGATGAAGGAGG  
CAGCCCTGCCTCCGGCTCCAGAGCGGGTTCGTAAGTGGCGGGCCAGGGGACGCCGATGGGGCGTCTTCC  
CGTAAGCGCACCCAGCAGCAGGTGGATTCTTCCGCCGTTCACTGCTGCTCAGCGGGCTCCGGGCTGGTG  
GGCGCCGAGCTCCCTGGGCAGCAAGAGGGGATCACTACGAAGCGAGGTGAGCAGCGAAGTGGGCAGTAC  
AGGACCCCGGGCTCCGAGGCCAGCGGGCCCTATCCAGCGCCACCTGCCCTCATCGAGGGCTCTGCC  
ACTGAGGTGTACGCCGTGAGTGGCGTGGCGACCGGCGCAGTGGCTACGGAGTGAGCCAGAGATCCAACG  
GGCTGCGCTATGAAGGCGAGTGGCTGGGCAACCGACCGGCACGGATACGGGCGCACCCCGGGCCGATGG  
CTCCCGTGAAGGAGGGCAAGTACAAGCGCAACCGGCTGGTACACGGGGGACGTGTCCGAGCCTCTGCCT  
CTGGCCCTTAGACGGGGCAAAGTCAAGGAGAAAGTGGACAGGGCTGTGCAAGGTGCCCGTCCGAGCTGTGA  
GTGCTGCCCGCCAGCGCCAGGAAATGCTGCTGCCAGGGCAGCAGACGCCCTCTCAAAGCAGTGGCAGC  
CAGCAGCGTCCGGGAGAAGGCCGTGGAGGCGGCGGATGGCCAAGCTGATAGCCAGGATCTACAACCC  
ATGTTAGAGGCCCCAGGCCGAGACCCCGACAGGATTCTGGAGTTCTGACACAGAGCCTTTGGATGAGG  
ACAGCCCCGGGTATACGAGAATGGACTGACCCCTCAGAGGGATCTCCGGAAGTCCCAGCAGCCTCTGC  
TTCCTCCACCAACCTTGGCGGGCCCTCCCTGCCGGAGCCACTGCCTCCCGAGGGAAGTGGGGCCCC  
TTCTCCAGTCTAAAGCTTGGCCTGAGGAGTGGGGGGTCTGGTGGCAGGCAGAGGAAGTGGCTGGCT  
ATGAGGCTGAGGATGAGGCTGGGATGCAGGCTCCAGGACCAGAGATGGTTCCTCCACTTCTCGGAGGCTG  
CAGTGACAGTTCAGGAAGTCTTCGAGAGGAGGAAGGGGAAGTGAAGAGTCTTGCCCGAGTGGGGCC  
CCAGGAGGCTCAGAATCTGAGCCTGTCAACTCCAGTTTGGAGGGCCTGTCTCAAGGGTCTGATG  
CTGGGTGCTGACAGAAGAGTTTGGAGGCGCTGCTGCCACCGAGAGGCGCTGCCAGCCGGGAGCTGCCAA  
CCCCCTGGTGGTAGGAGCTGTGGCTTGTGGATCTCAGCCTGGCGTTCCTGTTCTCCAGCTCCTCACC  
TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001003711

**Insert Size:** 1893 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\\_001003711.1](#), [NP\\_001003711.1](#)

**RefSeq Size:** 1893 bp

**RefSeq ORF:** 1893 bp

**Locus ID:** 445271

**UniProt ID:** [Q69FB3](#)

**Cytogenetics:** 15p13

**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 (By similarity).  
[UniProtKB/Swiss-Prot Function]