

## Product datasheet for **MR209574**

### Jph4 (NM\_177049) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR209574 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCTCCCGGGGCAAGTTCGACTTTGACGACGGGGCTGCTACGTGGGGGCTGGGAGCGGGGCGGG  
 CACATGGCTACGGCGTGTGCACCGGGCCCGCGCCAGGGAGAGTACAGCGGCTGCTGGGCTCACGGCTT  
 CGAGTCGCTGGGTGTCTTACGGGGCCCGCGGACACAGTTACCAGGGCCACTGGCAGCAGGGCAAGCGC  
 GAAGGGCTGGGCGTGGAGCGCAAGAGCCGCTGGACCTACCGCGCGAGTGGCTGGGCGGGCTGAAGGGG  
 GCAGCGCGGTATGGGAGAGCGTGTCCGGCTGCGCTACGCCGGGCTTGGAAAGGACGGCTTCCAGGACGG  
 CTACGGCACCGAGACCTACTCGGATGGAGGCATTACCAAGGCCAGTGGCAAGCCGGGAAACGCCACGGC  
 TACGGGGTGCCTAAAGTGTACCCTACCACCAGGCGCGCTTCTGCGCTCACCCCGCGCACCTCCCTGG  
 ACTCCGGCCACAGCGACCCCGGACGCCCTCCACCCCTACCCCTACCAGGAGATGAAGGAGGCAGCCC  
 AGCCTCCGGCTCCCGAGGCGGCTTCGTGCTGGCGGGGCCAGGGGACGCCAGCGGGCGCTTCCCGTAAG  
 CGCACCCAGCAGCAGGTGGATTCTCCGCCGTTCACTGCTGCTCAGCGGGCTCCGGGCTGGTGGGCGCC  
 GCAGCTCCCTGGGCGCAAGAGGGGATCTCTACGCAGCGAGGTGAGCAGCGAAGTGGGCAGTACAGGACC  
 CCCGGGCTCCGAGGCCAGCGGGCCCAATCCCAGCTCCACTGCCCTCATCGAGGGCTCAGCCACTGAG  
 GTGTACGCCGGTGTAGTGGCGTGGGACCGGCGCAGTGGCTATGGAGTGTAGCCAGAGATCCAACGGGCTG  
 GCTACGAAGGCGAGTGGCTGGGCAACCGACGCCACGGATACGGGCGCACCCCGGCCCGATGGCTCCCG  
 TGAGGAGGGCAAGTACAAGCGTAACCGGCTGGTACACGGGGACGTGTCCGCAGCCTCTGCCTCTGGCC  
 CTTAGACGGGGCAAGTCAAGGAGAAAGTGGACAGGGCTGTGCAAGGTGCCCGTCGAGCTGTGAGTGCTG  
 CCCGCCAGCGCCAGGAAATTGCGGCTGCCAGGGCAGCAGACGCCCTCTAAAAGCAGTGGCAGCCAGCAG  
 CGTCGCGGAGAAGGCTGTGGAGGCTGCGCGGATGGCCAAGCTGATAGCCAGGATCTACAACCCATGTTA  
 GAGGCCCCAGGCCGACAGCCAGACAGGACTCAGGAGTTCTGACACAGAGCCTTTGGATGAGGACAGCC  
 CTGGGGTATACGAGAATGGACTGACCCCTCAGAGGGCTCTCCGAACTACCCAGCAGCCCCGCTCCTC  
 CCACCAACCTTGGCGAGCCCTGCCTGCCGGAGTCCACTGCCTCTGGAGGGAAGTGGGGCCCTTCTCC  
 AGCCCTAAAGCTTGGCCGAGGAGTGGGGGGTCTGGTGTAGCAGGCAGAGGAAGTGGCTATGAGG  
 CTGAGGATGAGGCTGGGGTGCAGGGTCCAGGACCAAGAGATGGTCCCCACTTCTCGGAGGCTGCAGTGA  
 CAGTTCAGGAAGTCTTCGAGAGGAGAGGGGGAAGACGAAGATCCTTGCCTCAACTGAGGGCCCCAGGA  
 GGCTCAGAGTCTGAGCCTGTACCACGCCAGTTTTGAGGGCCTGTCTTCAAGGGTCTGATGCTGGGT  
 GCCTGACAGAAGAGGTTGAGGAGCCTGCTCCACCGAGAGGCCTGCCAGCCGGGAGCTGCCAACCCCT  
 GGTGGTGGGAGCCGTGGCCTGTGTGACCTCAGCCTGGCCTTCTGTTCTCCAGCTCCTCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

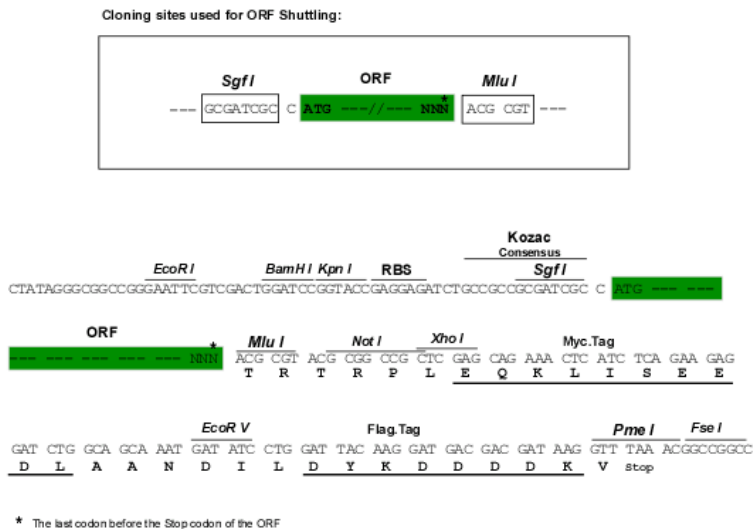
>MR209574 protein sequence  
 Red=Cloning site Green=Tags(s)

MSPGGKFDFFDGGCYVGGWEAGRAHGYVCTGPGAQGEYSGCWAHGFESLGVFTGPGGHSYQGHWQGGKR  
 EGLGVERKSRWTYRGEWLGLKGRSGVWESVSLRYAGLWKDGFQDGYGTETYSDDGTYQGQWQAGKRHG  
 YGVRQSVYPYHQAALLRSPRRTSLDSGHSPPPTPPPPLPLPGDEGGSPASGSRGGFVLAGPDADGASSRK  
 RTPAAGGFFRRSLLLGLRAGRRSSLGSKRSLRSEVSSEVSTGPPGSEASGPPIPAPPALIEGSATE  
 VYAGWRADRRSGYGVSRNGLRYEGEWLGNRRHGYGRTRPDGSREEGKYKRNRLVHGGVRVRSLLPLA  
 LRRGKVKKEVDRAVEGARRAVSARQRQEIAAAARAADALLKAVAASSVAEKAVEAARMAKLI AQDLQPML  
 EAPRRRPRQSDGGSDTEPLDEDSPGVYENGLTPSEGSPELPSASPASHQPWRAPACRSPLPPGGNWPFS  
 SPKAWPEEWGGPEQAEELAGYEADEAGVQGGPRDGSPLLGGCSDSSGSLREEEGEDEESLPQLRAPG  
 GSESEPVTTPLRGLSSRGPDAGCLTEEVEEPAPTERPAQPGAANPLVVGAVALLDL SLAFLFSQLLT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_177049

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

RefSeq Size: 4489 bp

RefSeq ORF: 1887 bp

Locus ID: 319984

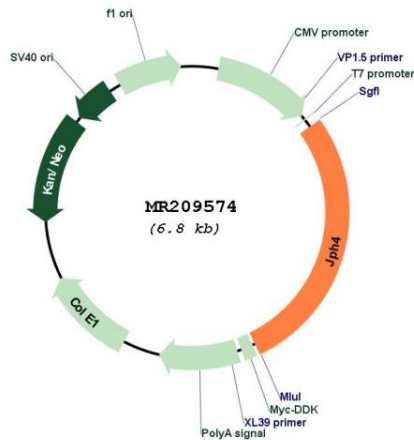
UniProt ID: [Q80WT0](#)

**Cytogenetics:** 14 C3

**MW:** 66 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. JPH4 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 MR209574