

Product datasheet for **RG228978**

JPH4 (NM_001146028) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JPH4 (NM_001146028) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	JPH4
Synonyms:	JP4; JPHL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228978 representing NM_001146028
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTC~~CCCCGGGGCAAGTT~~CGACTTTGACGACGGGGCTGCTACGTGGGGGCTGGGAGCGGGGCGGG
 CACATGGCTACGGCGTGTGCACGGGCCCGGCGCCAGGGCGAGTACAGCGGCTGCTGGGCACACGGCTT
 CGAGTCACTGGGCGTCTTACGGGGCCCGCGGACACAGCTACCAGGGCCACTGGCAGCAGGGCAAGCGC
 GAAGGGCTGGGCGTGGAGCGCAAGAGCCGCTGGACGTACCGCGCGAGTGGCTGGGCGGGCTGAAGGGG
 GCAGCGGCGTGTGGAAAGCGTGTCCGGCTGCGCTACGCCGGGCTTGGAAAGGACGTTTCCAGGACGG
 CTACGGCACTGAGACCTACTCCGACGGAGGCACCTACCAGGGCCAGTGGCAGGCCGGGAAGCGCCACGGC
 TACGGGGTACGCCAGAGTGTGCCCTACCATCAGGCGGCGTGTGCGCTCGCCCCCGGCACCTCCCTGG
 ATTCGGCCACAGCGACCCCGACGCCACCCCGCCCTGCCCTTGGCGGGCAGCAGGGAGGCAGCCCC
 CGCCTCGGGCTCCCGGGCGGCTTCGTGTGGCCGGGCCGGGGACGCCAGCGGCGCTGTCCCGAAAG
 CGCACTCCAGCGGCCGGGATTCTTTCGCCGTTGCTGTGCTCAGCGGGCTCCGAGCGGGCGGAGCTC
 GCAGCTCCCTGGGCGCAAGCGAGGCTCCCTGCGCAGCGAGGTGAGCAGCGAGGTGGGCAGCACCGGACC
 GCCCGGCTCGGAGGCCAGCGGGCCCCGGCCGACGCGCCGCCCGCTCATCGAGGGCTCGGCCACAGAG
 GTGTACGCGGGCGAGTGGCGCGCAGATCGGCGCAGCGGCTTCGGCGTCAGCCAGCGCTCCAACGGGCTG
 GCTACGAGGGCGAGTGGTGGGCAACCAGCGGCACGGCTACGGGCGCACCCCGCCCGGACGGCTCCCG
 CGAGGAGGGCAAGTACAAGCGCAACCGGCTGGTGCACGGCGGGCGGTCCGAGTCTCCTGCCTCTGGCC
 CTTCCGGGGGCAAGGTTAAGGAGAAGGTGGACAGGGCTGTGAGGGGCGCCGTCGAGCCGTGAGTGTG
 CCGCTCAGCGCCAGGAGATCGCCGCTGCCAGGGCAGCAGAGCCCTCTAAAGGCAGTGGCAGCCAGCAG
 TGTGCTGAGAAGGCGGTGGAGGCAGCTCGAATGGCCAACTGATAGCCAGGACCTGCAGCCCATGCTA
 GAGGCCCGAGGCCGAGACCCAGGCAGGACTCAGAAGTTCCGACACGGAGCCCTGGATGAGGACAGCC
 CTGGGGTATATGAGAACGGACTGACCCCTCAGAGGGATCCCCTGAACTGCCAGCAGTCTGCCTCCTC
 CCGCCAACCTGGCGACCCCTGCCTGCCGGAGCCACTGCCTCCTGGAGGGGACCAGGGTCCCTTCTCC
 AGCCCCAAAGCTTGGCCTGAGGAGTGGGGGGGGCAGGCGCACAGGCAGAGGAAGTAGCTGGCTATGAGG
 CTGAGGATGAGGCTGGGATGCAAGGGCCAGGGCCAGAGACGGTCCCCACTCCTCGGAGGCTGCAGCGA
 CAGTTCAGGAAGTCTTCGAGAGGAGGAGGGGAGGATGAAGAGCCCTGCCCCGCTGAGGGCCCCAGCA
 GGCACGGAGCCTGAGCCATCGCCATGCTGGTCTGAGGGCTCGTCTCAGAGGGTTCATGATGCTGGGT
 GCCTGACAGAAGAGCTCGGGGAGCCGCTGCAACCGAGAGGCCTGCCAGCCGGGAGCTGCCAACCCCT
 GGTGTTGGGAGCCGTGGCCCTCCTGGACCTCAGCCTGGCATTCTGTTCTCCAGCTCCTCAC

ACGCGTACGCGGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228978 representing NM_001146028
 Red=Cloning site Green=Tags(s)

MSPGGKFDFFDDGGCYVGGWEAGRAHGYVCTGPGAQGEYSGCWAHGFESLGVFTGPGGHSYQGHWQGGKR
 EGLGVERKSRWTYRGEWLGGKGRSGVWESVSLRYAGLWKDGFQDGYGTETYSDDGTYQGQWQAGKRHG
 YGVRQSVPYHQALLRSPRRTSLDSGHSDPPTPPPPLPLPGDEGGSPASGSRGGFVLAGPGDADGASSRK
 RTPAAGGFFRRSLLL SGLRAGRRSSLGSKRSLRSEVSSEVGSTGPPGSEASGPPAAAPPALIEGSATE
 VYAGEWRRDRSFGVQSQRNGLRYEGEWLGNQRHGYGRTRPDGSREEGKYKRNLVHGGRVRSLLPLA
 LRRGKVKKEKVDRAVEGARRAVSAARQRQEIAAARAADALLKAVAASSVAEKAVEAARMAKLI AQDLQPML
 EAPGRRPRQDSEGSDEPLDEDSPGVYENGLTPSEGSPPELSSPASSRQPWRPPACRSPLPPGGDQGPFS
 SPKAWPEEWGGAGAQAEELAGYEADEAGMQGPGPRDGSPLLGGCSDSSGSLREEEGEDEEPLPLRAPA
 GTEPEPIAMLVLRGSSSRGHDAGCLTEELGEPATERPAQPGAANPLVVGAVALLDL SLAFLFSQLLT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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_001146028.1 , NP_001139500.1
RefSeq Size:	4278 bp
RefSeq ORF:	1887 bp
Locus ID:	84502
UniProt ID:	Q96JJ6
Cytogenetics:	14q11.2
Gene Summary:	This gene encodes a member of the junctophilin family of transmembrane proteins that are involved in the formation of the junctional membrane complexes between the plasma membrane and the endoplasmic/sarcoplasmic reticulum in excitable cells. The encoded protein contains a conserved N-terminal repeat region called the membrane occupation and recognition nexus sequence that is found in other members of the junctophilin family. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]