

## Product datasheet for **RC233389**

### JPH3 (NM\_001271604) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** JPH3 (NM\_001271604) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** JPH3  
**Synonyms:** CAGL237; HDL2; JP-3; JP3; TNRC22  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233389 representing NM\_001271604  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCCAGTGGGGCAGGTTTAATTTTGACGACGGAGGGTCTACTGTGGAGGCTGGGAGGACGGCAAGG  
CGCACGGCCATGGCGTCTGCACCGGCCCAAGGGCCAAGGCGAATACACCGGCTCGTGGAGCCACGGCTT  
CGAGGTGCTGGGCGTCTACACCTGGCCCAGCGGCAACACGTACCAGGGCACCTGGGCGCAGGCAAGCGC  
CACGGCATCGGCCTGGAGAGCAAGGGGAAGTGGGTGTACAAGGGCGAGTGGACGCACGGATTCAAGGGG  
GCTACGGGGTGC GGAGTGC CGGGCAACGGGGCAAATACGAAGGGACCTGGAGCAACGGGCTGCAGGA  
CGGCTACGGGACCGAGACCTACTCGGACGAGATGCCACCGCATTGCGGGCAGAGCCGGGCGCGAAGCC  
AGGGAGCTGCCTGCA  
GGGAACCTTGGCCGGCTCTGCAGCTGCCCGCTGCCTGGACTCTCCGATATCCACTCCTCAGTGCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233389 representing NM\_001271604  
Red=Cloning site Green=Tags(s)

MSSGGRFNFDDGGSYCGGWEDGKAHGHGVCTGPKGQGEYTSWSHGFVVLGVYTWPSGNTYQGTWAQGKR  
HGIGLESKGWVYKGEWTHGFKGRYGVRECAAGAKYEGTWSNGLQDGYGTETYSGDGATAFGAEPGPEA  
RELPAAAAAAAAAAAVRFWFLCREPWPALQLPACLDSPISTPQCT

**TRTRP**LEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_001271604

**ORF Size:** 558 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\\_001271604.3](#)

**RefSeq Size:** 1087 bp

**RefSeq ORF:** 561 bp

**Locus ID:** 57338

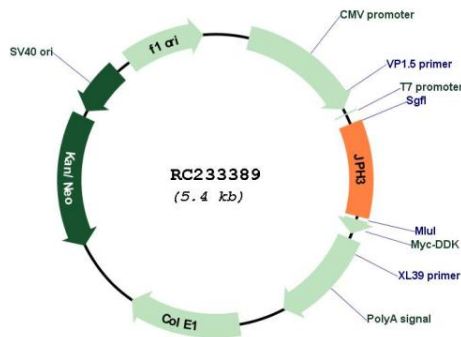
**Cytogenetics:** 16q24.2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 20.1 kDa

**Gene Summary:** Junctional complexes between the plasma membrane and endoplasmic/sarcoplasmic reticulum are a common feature of all excitable cell types and mediate cross talk between cell surface and intracellular ion channels. The protein encoded by this gene is a component of junctional complexes and is composed of a C-terminal hydrophobic segment spanning the endoplasmic/sarcoplasmic reticulum membrane and a remaining cytoplasmic domain that shows specific affinity for the plasma membrane. CAG/CTG repeat expansion from normally 6-28 repeats to 40-59 repeats in the 3' UTR of this gene have been associated with Huntington disease-like 2 (HDL2). This gene is a member of the junctophilin gene family. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2016]

**Product images:**



Circular map for RC233389