

## Product datasheet for **SC333067**

### **JPH3 (NM\_001271604) Human Untagged Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** JPH3 (NM\_001271604) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** JPH3  
**Synonyms:** CAGL237; HDL2; JP-3; JP3; TNRC22  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333067 representing NM\_001271604.  
**Blue**=Insert sequence **Red**=Cloning site **Green**=Tag(s)

```
ATGTCCAGTGGGGCAGGTTTAATTTTGACGACGGAGGGTCTACTGTGGAGGCTGGGAGGACGGCAAG
GCGCACGGCCATGGCGTCTGCACCGGCCCAAGGGCCAAGGCGAATACACCGGCTCGTGGAGCCACGGC
TTCGAGGTGCTGGGCGTCTACACCTGGCCAGCGGCAACACGTACCAGGGCACCTGGGCGCAGGGCAAG
CGCCACGGCATCGGCCTGGAGAGCAAGGGGAAGTGGGTGTACAAGGGCGAGTGGACGCACGGATTCAAG
GGGCGCTACGGGTGCGGGAGTGC GCGGGCAACGGGGCCAAATACGAAGGGACCTGGAGCAACGGGCTG
CAGGACGGCTACGGGACCGAGACCTACTCGGACGGAGATGCCACCGCATTCCGGGGCAGAGCCGGGGCCG
GAAGCCAGGGAGCTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGTAAGATGGTTT
CTGTGCAGGGAACCTTGGCCGGCTCTGCAGCTGCCCGCCTGCCTGGACTCTCCGATATCCACTCCTCAG
TGCACCTGA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001271604  
**Insert Size:** 561 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).



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**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\\_001271604.2](#)

**RefSeq Size:** 1087 bp

**RefSeq ORF:** 561 bp

**Locus ID:** 57338

**Cytogenetics:** 16q24.2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 19.6 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]  
Transcript Variant: This variant (2) lacks several exons and includes an alternate 3' terminal exon compared to variant 1. The latter results in a frame-shift and a much shorter isoform (2) with a distinct C-terminus containing a 13 aa polyalanine stretch compared to isoform 1. This variant is described in PMID:11694876.