

## Product datasheet for **SC114727**

### Josephin 1 (JOSD1) (NM\_014876) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Josephin 1 (JOSD1) (NM_014876) Human Untagged Clone
Tag:	Tag Free
Symbol:	Josephin 1
Synonyms:	dj508l15.2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114727 sequence for NM_014876 edited (data generated by NextGen Sequencing) ATGAGTTGTGTGCCATGGAAAGGAGACAAGGCCAAATCTGAATCATTGGAGCTGCCCCAG GCAGACCCCCACAAATCTACCATGAGAAACAGCGCAGGGAGCTTTGTGCCCTCCACGCC CTCAATAACGTCTTCCAGGACAGCAATGCCTTACCCGGGATACGCTGCAAGAGATTTTC CAGAGGTTGTCTCCAAACACCATGGTGACACCTACAAGAAGAGCATGCTGGGAAATGGC AACTACGATGTGAATGTCATTATGGCAGCACTTACAGACAAAGGCTATGAAGCTGTTTGG TGGGACAAGCGCAGGGATGTCGGTGTCTTGCCTCACTAACGTCATGGGCTTCATCATG AATCTGCCCTCCAGCCTATGCTGGGGTCCACTGAAACTGCCCTCAAAGGCAGCACTGG ATCTGTGTTTCGAGAGGTGGGAGGGGCTACTACAACCTCGACTCCAAACTCAAGATGCC GAGTGGATTGGAGGCGAGAGCGAGCTCAGGAAGTTTCTAAAACATCATTTGCGAGGAAAG AACTGTGAACCTCTGCTGGTGGTACCAGAAGAGGTAGAGGCTCATCAGAGTTGGAGGACC GATGTGTAA

Clone variation with respect to NM\_014876.5



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014876 unedited  
 GGGTTCAGAAATTATGTATACGACTCACTATAGGGCGGCCCGCAATCGGCACGAGGCTT  
 ACATTTTATGTGTTTTTTTAAATTTCTGCACTTTGACAGTGGTAGCAAAATAAAAGTAATC  
 CAAAAGTTATTTTCTATTGAGAAGAGAGAAGAGGTGGTTTTATTTTTTCTTTTGTAT  
 TCCAATCTTTTCTCCAGTGACAAAGCATAAATCATGGACACCAGAGAATAAGGTGGACC  
 TCAGGAATCCGAAAAGACTGAGAAGCTTACATTCTTCTCTAGAGGGAAGAGTGGGGTG  
 TTTATAGCCATCTCTGGAACCTAAAACAAAAAACATGAGTTGTGTGCCATGGAAAAGGAGA  
 CAAGGCCAAATCTGAATCATTGGAGCTGCCCCAGGCAGCACCCCCACAAATCTACCATGA  
 GAAACAGCGCAGGGAGCTTTGTGCCCTCCACGCCCTCAATAACGTCTTCCAGGACAGCAA  
 TGCCCTTACC CGGGATACGCTGCAAGAGATTTTCCAGAGGTTGTCTCAAACACCATGGT  
 GACACCTCACAAGAAGAGCATGCTGGGAAATGGCAACTACGATGTGAATGTCATTATGGC  
 AGCACTTCAGACCAAAGGCTATGAAGCTGTTGGTGGGACAAGCGCAGGGATGTCGGTGT  
 CATTGCCCTCACTAACGTCATGGGCTTCATCATGAATCTGCCCTCCAGCCTATGCTGGGG  
 TTCCTGGAAGTCCCTCAAAGCAGCACTGGATCTGTTGTGCGAGAGGTGGGGAGGGCC  
 TACTACACCTCGACTCCAACCTCAAGTGCCCGATGGATTGGAGCGAGAGCACCTCAGAAGT  
 CTAACATATTGCGAGGAAGACTGTGACTCTGCTGTGGACCAGAGAGTANAGCTATCACA  
 GTTGAGACCGTGGTACAGTCTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014876 unedited  
 GGCTCCGGCCACCGTCGAGTATCGAGTTAATCCTTTTTTTTTTTGGAGTTTTCCATTTT  
 TAATATTTGGTTAAACAAAATACATCTTTTGTAAACAAACGCAGCACAAAGCCAACAACA  
 AAAAGGAATAAAAGCAAGAAAAACAAAAGCCTAAGGTTGCCGTTATTGGGCATCAGGG  
 TCAGGCCCTGTTCACTTCCCTTAAAGGAAGTGGGGCTTTTTGCCCTTGGGCATCAGCATGGG  
 TCCTGTCTCTAAGCACCAGAATTGGATATGAACAGAGAAACCAGCCCTGAAATGTTTAA  
 GCGTCTTTGCATATCCCATTGGCTCATGGACTCCAAGTGCATGGGGACTCTTTCAAGTGC  
 CATTGGCCAGGCCAAAGTGGATTTGTGGAGAGGAGTTTCTCCTCTACCCAAGAAATGG  
 CTTACTATCTGACCGTGCCAGTGGCCCCATGGTCTGCTTGTGATCTTCAGCTAGGGTGG  
 CTGCTTCGCTGGCTGGCGGGTGGGATTGTCCTTGTGCTGGGCTCGATAAGAGCTCCC  
 TGTGGCGCCCTGCTGGCCTGGTTGTTTTTTGGTGCCTTATACTGCCGCCTTTTCGCTT  
 GTCTTCTTTTCCGCCTCCTCCCTCTGGGGCCTGTCTCCTTTTCTCCCTCCCGCCTTGT  
 GGGCCTGGTCCCCCGCTGCCTGTTTTGGCCTGGGCTTGCCCGTCTTTCTCTCTTTGTT  
 GCTTTTTTCTTTTCGCTCCTCGGCTTTCTCTGCTTCTCTTTTTCTTTTCTCCTTCTCT  
 CTCTTCTTTTCTCCTCCCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
 CCTCTCTCTTCTGCCCTCTTCGGCTCCTCTCTCGTTTCCGCTTCCCCTCCTCCCCGT  
 CCTCCGCTTCTCGCTTCCCTCTCCCCATCGCTCTCTGCTTCCGCCCCCTTTTCTCGTC  
 NTCTCTTCTCTCGTTCCCCCTCCCCCTCTGGCTCCCCGCGTTTCGCTACGCACTACAACAC  
 AAACACAAACAAGAAC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014876

**Insert Size:**

3240 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_014876.3](#), [NP\\_055691.1](#)

**RefSeq Size:** 3207 bp

**RefSeq ORF:** 609 bp

**Locus ID:** 9929

**UniProt ID:** [Q15040](#)

**Cytogenetics:** 22q13.1

**Domains:** Josephin

**Protein Families:** Druggable Genome

**Gene Summary:** Deubiquitinates monoubiquitinated probes (in vitro). When ubiquitinated, cleaves 'Lys-63'-linked and 'Lys-48'-linked poly-ubiquitin chains (in vitro), hence may act as a deubiquitinating enzyme. May increase macropinocytosis and suppress clathrin- and caveolae-mediated endocytosis. May enhance membrane dynamics and cell motility independently of its catalytic activity.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the predominant transcript. Variants 1, 2, and 3 encode the same protein.