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Product datasheet for RC201968

Josephin 1 (JOSD1) (NM_014876) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Josephin 1 (JOSD1) (NM_014876) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Josephin 1
Synonyms:	dJ508I15.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201968 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTGTGTGCCATGGAAAGGAGACAAGGCCAAATCTGAATCATTGGAGCTGCCCCAGGCAGCACCCC
CACAAATCTACCATGAGAAACAGCGCAGGGAGCTTTGTGCCCTCCACGCCCTCAATAACGTCTTCCAGGA
CAGCAATGCCTTCACCCGGGATACGCTGCAAGAGATTTTCCAGAGGTTGTCTCCAAACACCATGGTGACA
CCTCACAAGAAGAGCATGCTGGGAAATGGCAACTACGATGTGAATGTCATTATGGCAGCACTTCAGACCA
AAGGCTATGAAGCTGTTTGGTGGGACAAGCGCAGGGATGTCGGTGTCATTGCCCTCACTAACGTCATGGG
CTTCATCATGAATCTGCCCTCCAGCCTATGCTGGGGTCCACTGAAACTGCCCCTCAAAAGGCAGCACTGG
ATCTGTGTTCGAGAGGTGGGAGGGGCCTACTACAACCTCGACTCCAAACTCAAGATGCCCGAGTGGATTG
GAGGCGAGAGCGAGCTCAGGAAGTTTCTAAAACATCATTTGCGAGGAAAGAACTGTGAACTCCTGCTGGT
GGTACCAGAAGAGGTAGAGGCTCATCAGAGTTGGAGGACCGATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201968 protein sequence
Red=Cloning site Green=Tags(s)

MSCVPWKGDKAKSESLELPQAAPPQIYHEKQRRELCALHALNNVFQDSNAFTRDTLQEIFQRLSPNTMVT
PHKKSMLGNGNYDVNVIMAALQTKGYEAVWWDKRRDVGVIALTNVMGFIMNLPSSLCWGPLKLPLKRQHW
ICVREVGGAYYNLDSKLKMPEWIGGESELRKFLKHHLRGKNCELLLVVPEEVEAHQSWRTDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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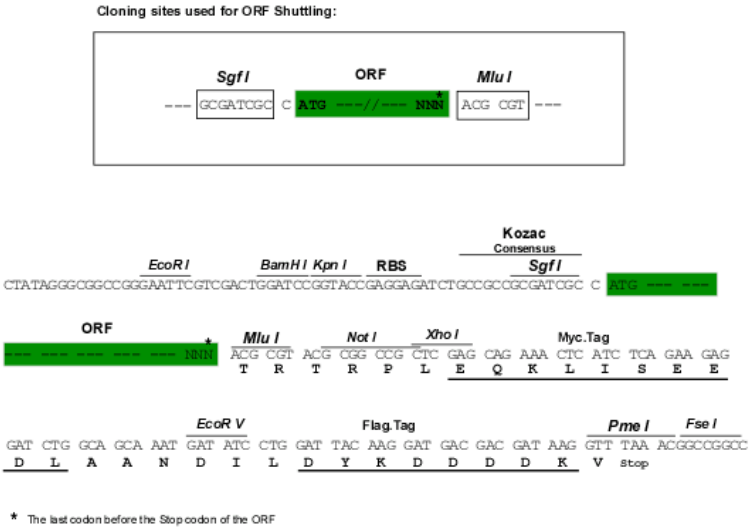
Chromatograms: https://cdn.origene.com/chromatograms/mk6306_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014876

ORF Size: 606 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 or by calling 301.340.3188 option 3 for pricing and delivery.

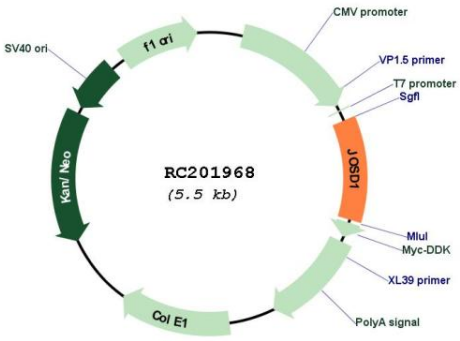
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

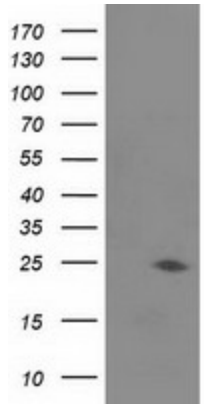
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014876.7
RefSeq Size:	3435 bp
RefSeq ORF:	609 bp
Locus ID:	9929
UniProt ID:	Q15040
Cytogenetics:	22q13.1
Domains:	Josephin
Protein Families:	Druggable Genome
MW:	23.2 kDa
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]

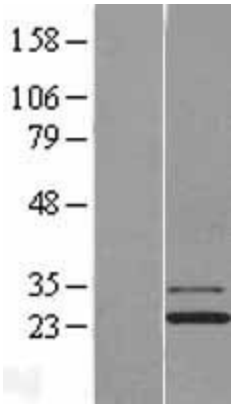
Product images:



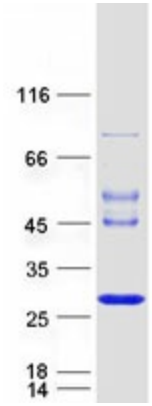
Circular map for RC201968



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY JOSD1 (Cat# RC201968, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-JOSD1(Cat# [TA502210]). Positive lysates [LY414963] (100ug) and [LC414963] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY414963]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201968 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified JOSD1 protein (Cat# [TP301968]). The protein was produced from HEK293T cells transfected with JOSD1 cDNA clone (Cat# RC201968) using MegaTran 2.0 (Cat# [TT210002]).