

## Product datasheet for **RC200979**

### **JAB1 (COPS5) (NM\_006837) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JAB1 (COPS5) (NM_006837) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	JAB1
Synonyms:	CSN5; JAB1; MOV-34; SGN5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200979 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGCGCTCCGGGAGCGGTATGGCCAGAAAACCTGGGAAGTGGCCAACAACATGCAGGAAGCTCAGA  
GTATCGATGAAATCTACAAATACGACAAGAAACAGCAGCAAGAAATCCTGGCGGCGAAGCCCTGGACTAA  
GGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTGGCTCTGCTGAAGATGGTGATGCCAGA  
TCGGGAGGCAACTTGAAGTGATGGGTCTGATGCTAGGAAAGGTGGATGGTGAACCATGATCATTATGG  
ACAGTTTTGCTTTGCCTGTGGAGGGCACTGAAACCCGAGTAAATGCTCAGGCTGCTGCATATGAATACAT  
GGCTGCATACATAGAAAATGCAAAACAGTTGGCCGCCTTGAAAATGCAATCGGGTGGTATCATAGCCAC  
CCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCAGATGCTCAATCAGCAGTTCAGGAAC  
CATTTGTAGCAGTGGTGATTGATCCAACAAGAACAATATCCGAGGGAAAGTGAATCTTGGCGCCTTTAG  
GACATACCCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATCCACTTAATAAA  
ATAGAAGATTTGGTGTACACTGCAACAATATTATGCCTTAGAAGTCTCATATTTCAAATCCTCTTTGG  
ATCGCAAATTGCTTGAGCTGTTGTGGAATAAATACTGGGTGAATACGTTGAGTCTTCTAGCTTGCTTAC  
TAATGCAGACTATACCACTGGTCAGGTCTTTGATTTGTCTGAAAAGTTAGAGCAGTCAGAAGCCCAGCTG  
GGACGAGGGAGTTTCATGTTGGGTTTAGAAACGCATGACCGAAAATCAGAAGACAACTTGCCAAAGCTA  
CAAGAGACAGCTGTAAAACCTACCATAGAAGCTATCCATGGATTGATGTCTCAGGTTATTAAGGATAAACT  
GTTAATCAAATTAACATCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200979 protein sequence  
Red=Cloning site Green=Tags(s)

MAASGSGMAQKTWELANNMQEAQSIDEIYKYDKKQQQEILAAKPWTKDHHYFKYCKISALALLKVMHAR  
 SGGNLEVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAAYEYMAAYIENAKQVGRLENAIGWYHSH  
 PGYGCWLSGIDVSTQMLNQFQEPFVAVVIDPRTTISAGKVNLGAFRTYPKGYKPPDEGPPSEYQTIPLNK  
 IEDFGVHCKQYYALEVSYFKSSSLDRKLELLWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQL  
 GRGSFMLGLETHDRKSEDKLAKATRDSCSTTIEAIHGLMSQVIKDKLFNQINIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6071\\_h06.zip](https://cdn.origene.com/chromatograms/mk6071_h06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006837

**ORF Size:** 1002 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\\_006837.3](#)

**RefSeq Size:** 1510 bp

**RefSeq ORF:** 1005 bp

**Locus ID:** 10987

**UniProt ID:** [Q92905](#)

**Cytogenetics:** 8q13.1

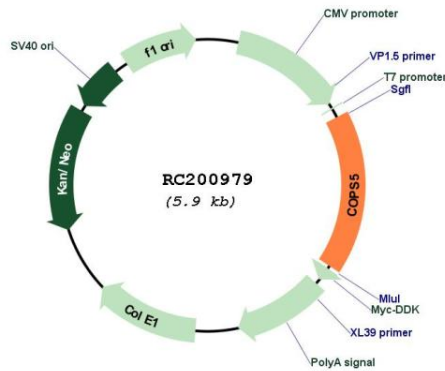
**Domains:** JAB\_MPN

**Protein Families:** Druggable Genome, Protease, Transcription Factors

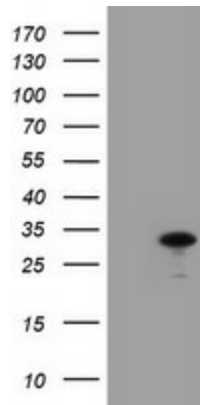
**MW:** 37.6 kDa

**Gene Summary:** The protein encoded by this gene is one of the eight subunits of COP9 signalosome, a highly conserved protein complex that functions as an important regulator in multiple signaling pathways. The structure and function of COP9 signalosome is similar to that of the 19S regulatory particle of 26S proteasome. COP9 signalosome has been shown to interact with SCF-type E3 ubiquitin ligases and act as a positive regulator of E3 ubiquitin ligases. This protein is reported to be involved in the degradation of cyclin-dependent kinase inhibitor CDKN1B/p27Kip1. It is also known to be an coactivator that increases the specificity of JUN/AP1 transcription factors. [provided by RefSeq, Jul 2008]

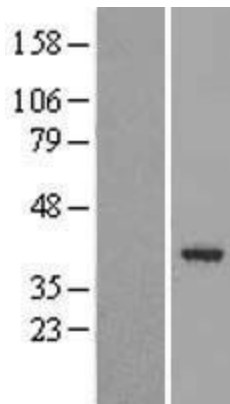
Product images:



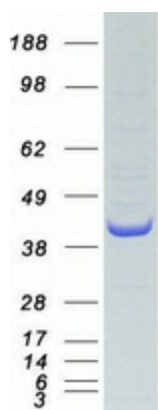
Circular map for RC200979



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY COPS5 (Cat# RC200979, 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-COPS5 (Cat# [TA504344]). Positive lysates [LY416392] (100ug) and [LC416392] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416392]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200979 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COPS5 protein (Cat# [TP300979]). The protein was produced from HEK293T cells transfected with COPS5 cDNA clone (Cat# RC200979) using MegaTran 2.0 (Cat# [TT210002]).