

## Product datasheet for **RC209551**

### USP39 (NM\_006590) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP39 (NM_006590) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP39
Synonyms:	65K; CGI-21; HSPC332; SAD1; SNRNP65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC209551 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCGGCCGGTCTAAGCGGGAGTCTCGCGGTTCCACTCGCGGAAGCGAGAGTCTGAGTCGCGGGGCA  
 GCTCCGGTCGCGTCAAGCGGGAGCGAGATCGGGAGCGGGAGCCTGAGCGCGGAGCTCCCGGGCAGCCC  
 TGTGCGCGTGAAGCGGGAGTTCGAGCGCGGAGCGCGCGGAGGCCCGGCTTCTGTTGTCCCGTTTGTG  
 CGGGTGAAGCGGGAGCGGAGGTCGATGAGGACTCGGAGCCTGAGCGGGAGGTGCGAGCAAAGAATGGCC  
 GAGTGGATTCTGAGGACCGGAGGAGCCGCACTGCCCGTACCTGGACACCATTACAGGAGTGTGCTGGA  
 CTTTGACTTTGAGAACTGTGTTCTATCTCCCTCACACATCAATGCTTATGCCTGTCTGGTGTGTGGC  
 AAGTACTTTCAAGCGGGGTTGAAGTCTCACGCCTACATTCACAGTGTCCAGTTTAGCCACCATGTTT  
 TCCTCAACCTCCACACCCTCAAGTTTTACTGCCTTCCAGACAATATGAGATCATCGATTCTCATTGGA  
 GGATATACGATGTGTTGAAGCCCACTTCCAAAGCAGCAAATGCAAACCTGGACAAGCAAGCCAAA  
 TTGTCGCGGCATATGATGGTACCATTACCTGCCGGGATTGTGGGACTGAATAACATAAAGGCCAATG  
 ATTATGCCAACGCTGTCCTTCAGGCTCTATCTAATGTTCTCCTCTCCGGAACACTTTCTGGAAGAAGA  
 CAATTATAAGAACATCAAACGTCCTCCAGGGGATATCATGTTCTTGTGGTCCAGCGTTTGGAGAGCTG  
 ATGAGAAAGCTCTGGAACCCTCGAAATTCAGGCACATGTGTCTCCCATGAGATGCTTCAGGCAGTTG  
 TACTTTGCAGTAAGAAGACTTTTCAGATCACAAAACAAGGAGATGGCGTTGACTTTCTGTCTTGGTTTCT  
 GAATGCTCTGCACTCAGCTCTGGGGGCACAAAGAAGAAAAGAAGACTATTGTGACTGATGTTTCCAG  
 GGTCCATGAGGATCTTCACTAAAAGCTTCCCATCCTGATCTGCCAGCAGAAGAAAAGAGCAGTTGC  
 TCCATAATGACGAGTACCAGGAGACAATGGTGGAGTCCACTTTTATGTACCTGACGCTGGACCTTCTCT  
 TGCCCCCTCTACAAGGACGAGAAGGAGCAGCTCATCATTCCCAAGTGCCACTTCAACATCCTGGCT  
 AAGTTCAATGGCCTACTGAGAAGGAATAAAGACTTACAAGGAGAACTTTCTGAAGCGTTCCAGCTTA  
 CCAAGTTGCCTCCATATCTAATCTTTTGTATCAAGAGATTCATAAGAACAACCTTTTGTGAGAAGAA  
 TCCAACATTTGTCAATTTCCCTATTACAAATGTGGATCTGAGAGAATACTTGTCTGAAGAAGTACAAGCA  
 GTACACAAGAATACCACCTATGACCTCATTGCCAACATCGTGCATGACGGCAAGCCCTCCGAGGGCTCT  
 ACCGGATCCAGTGCTTCATCATGGGACAGGCAAATGGTATGAATTACAAGACCTCCAGGTGACTGACAT  
 CCTTCCCAGATGATCACACTGTCAGAGGCTTACATTCAGATTTGAAGAGGCGAGATAATGATGAAACC  
 AACCAGCAGGGGGCT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209551 protein sequence  
 Red=Cloning site Green=Tags(s)

MSGRSKRESRGSTRGKRESESRGSSGRVKRERDREREPEAASSRGSPVRVKREFEPASAREAPASVVPFV  
 RVKREVEDESEPEREVRKNGRVDSEDRSRHCPYLDITNRSVLDFDFEKLCSISLSHINAYACLVCG  
 KYFQGRGLKSHAYIHSVQFHHVFLNLHLKFYCLPDNYEIIDSSLEDITYVLKPTFTKQQIANLDKQAK  
 LSRAYDGTTYLPGIVGLNLIKANDYANAVLQALSNVPLRNYFLEEDNYKNIKRPDGDIMFLLVQRFGE  
 MRKLWNPKNFKAHVSPHEMLQAVVLCSSKTFQITKQGDGVDFLSWFLNALHSALGGTKKKKKKTIVTVDFQ  
 GSMRIFTKKLPHPDLPAEKEQLLHNDEYQETMVESTFMYLTLDLPTAPLYKDEKEQLIIPQVPLFNILA  
 KFNNGITEKEYKYKENFLKRFQLTKLPPYLIFCIKRFKNNFFVEKNPTIVNFPITNVDLREYLSEEVQA  
 VHKNTTYDLIANIVHDGKPSSEGSYRIHVLHHGTGWYELQDLQVTDILPQMITLSEAYIQIWKRRDND  
 ET NQQGA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6148\\_a09.zip](https://cdn.origene.com/chromatograms/mk6148_a09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_006590

**ORF Size:** 1695 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\\_006590.4](#)

**RefSeq Size:** 2298 bp

**RefSeq ORF:** 1698 bp

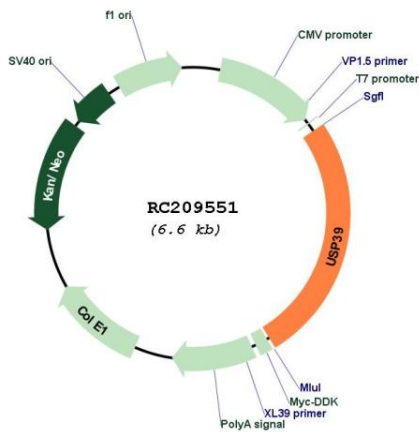
**Locus ID:** 10713

**UniProt ID:** [Q53GS9](#)

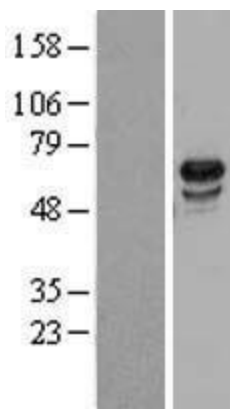
**Cytogenetics:** 2p11.2

**Domains:** UCH  
**Protein Families:** Protease  
**Protein Pathways:** Spliceosome  
**MW:** 65.4 kDa  
**Gene Summary:** Plays a role in pre-mRNA splicing as a component of the U4/U6-U5 tri-snRNP, one of the building blocks of the precatalytic spliceosome (PubMed:11350945, PubMed:26912367). Regulates AURKB mRNA levels, and thereby plays a role in cytokinesis and in the spindle checkpoint. Does not have ubiquitin-specific peptidase activity (PubMed:18728397). [UniProtKB/Swiss-Prot Function]

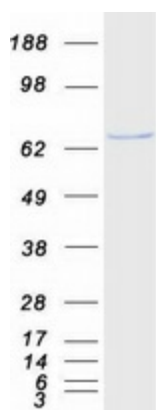
**Product images:**



Circular map for RC209551



Western blot validation of overexpression lysate (Cat# [LY401972]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209551 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified USP39 protein (Cat# [TP309551]). The protein was produced from HEK293T cells transfected with USP39 cDNA clone (Cat# RC209551) using MegaTran 2.0 (Cat# [TT210002]).