

Product datasheet for **RC239224**

SUPV3L1 (NM_001301683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUPV3L1 (NM_001301683) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SUPV3L1
Synonyms:	SUV3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239224 representing NM_001301683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGTCTCATTCCCTGGATGTGGACATTACATTGTTTTGAATGATATTTGCTTCGGTGCAGCTCATG
 CGGATGATTTATTCCCATTTTTCTTGAGACATGCCAAACAAATATTTCTGTGTTGGACTGTAAGGATGA
 TCTACGTAATAATCAGTGACTTAAGAATACCACCTAACTGGTACCCAGATGCTAGAGCCATGCAGCGGAAG
 ATAATATTTTCATTAGGCCCCACAAACAGTGGAAAGACTTATCACGCAATCCAGAAATCTTCTCAGCAA
 AGTCTGGAGTGTATTGTGGCCCTCTAAATTTACTGGCACATGAGATCTTCGAAAAGAGTAATGCTGCTGG
 TGTGCCATGTGACTTGGTGACAGGTGAAGAGCGTGTGACAGTTTACGCCAAATGGGAAACAGGCTTCACAT
 GTTTCTTGACAGTTGAGATGTGACAGTGTACAACCTCTTATGAAGTGGCTGTAATTGATGAAATTCAAA
 TGATTAGAGATCCAGCCAGAGGATGGGCTGGACCAGAGCACTTCTAGGACTGTGTGCTGAAGAGGTTCA
 TTTGTGTGGAGAACCTGTGCTATTGACCTGGTGTGAGCTTATGTACACAACGGGGGAGGAAGTGGAG
 GTTCGAGACTATAAGAGGCTTACCCCATTTCTGTGCTGGACCATGCACTAGAATCTTTAGATAACCTTC
 GGCTGGGGACTGCATTGTCTGTTTTAGCAAGAATGATATTTATCTGTGAGTCGGCAGATTGAAATTCG
 GGGATTAGAATCAGCTGTTATATATGGCAGTCTCCACCTGGGACCAAATTTGCTCAAGCAAAAAAGTTT
 AATGATCCCAATGACCCATGCAAAATCTTGTTGCTACAGATGCAATTGGCATGGGACTTAATTTGAGCA
 TAAGGAGAATTATTTTTTACTCCCTATAAAGCCAGTATCAATGAAAAGGGAGAGAGAGAACTAGAAC
 AATCACAACCTCTCAAGCCCTGCAGATTGCTGGCAGAGCTGGCAGATTGAGCTCACGGTTTAAAGAAGGA
 GAGGTTACAACAATGAATCATGAAGATCTAGTTTATTAAGGAAATTTGAAGAGGCTGTGGATCCTA
 TAAGGGCAGCTGGTCTTCATCCAACCTGCTGAGCAGATTGAAATGTTTGCCTACCATCTCCCTGATGCAAC
 ACTGTCCAATCTCATTGATATTTTTGTAGACTTTTACAAAGTTGATGGGCAGTATTTTGTCTGCAATATG
 GATGATTTTAAATTTTCTGCAGAGTTGATCCAGCATATTCACCTAAGTCTGCGAGTGAGGTATGTTTTCT
 GCACAGCTCCTATCAACAAGAAGCAGCCTTTTGTGTGTTCTTCACTGTTACAGTTTGCCAGGCAGTATAG
 CAGGAATGAGCCCTGACCTTTGCATGGTTACGCCGATACATCAAATGGCCTTTACTTCCACCTAAGAAT
 ATTAAGACCTCATGGATCTTGAAGCTGTCCACGATGTCTTGATCTTTACTTGTGGCTAAGCTACCGAT
 TTATGGATATGTTTCCAGATGCCAGCCTTATTCGAGATCTCCAGAAAGAACTAGATGGTATTATCCAAGA
 TGGTGTGCACAATATCACTAAATGATTAATGTCTGAGACGCATAAGCTGTTGAATTTGGAGGGCTTT
 CCATCAGGGAGCCAGTCACGATTGTGAGGAACCTTAAAGAGCCAAGCTAGAAGGACACGCGGCACCAAAG
 CTCTAGGGAGTAAAGCTACTGAGCCACCCAGCCCGATGCAGGAGAGCTGTCCCTTGCTTCCAGATTGGT
 GCAGCAAGGACTCCTCACTCCAGACATGCTGAAACAGCTAGAAAAAGAGTGGATGACACAACAACTGAA
 CACAACAAAGAAAAACAGAGTCTGGGACTCATCCAAAAGGGACGAGAAGAAAGAAGAAGGAACCTGATT
 CGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239224 representing NM_001301683
 Red=Cloning site Green=Tags(s)

MQSHSLDVDIHIVLNDICFGAAHADDLPFFFLRHAKQIFPVLDCDDLRKISDLRIPPNNWYPDARAMQRK
 IIFHSGPTNSGKTYHAIQKYFSAKSGVYCGPLKLLAHEIFEKSNAAGVPCDLVTGEERVTVQPNGKQASH
 VSCTVEMCSVTTPYEVAVIDEIQMIRDPARGWAWTRALLGLCAEEVHLCGEPAADLVMELMYTTGEEVE
 VRDYKRLTPISVLDHALESNDLRPGDCIVCFSKNDIYSVSRQIEIRGLESAYIYGLPPGKLAQAKKF
 NDPNDPCKILVATDAIGMGLNLSIRRIIFYSLIKPSINEKGERELEPITTSQALQIAGRAGRFSRRFKEG
 EVTTMNHEDLSLLKEILKRPVDPIRAAGLHPTAEQIEMFAYHLPDATLSNLIDIFVDFSQVDGQYFVCNM
 DDFKFSaelIQHIPLSLRVRYVFCTAPINKKQPFVCSLLQFARQYSRNEPLTFAWLRRYIKWPLLPKN
 IKDLMLEAVHDVLDLWL SYRFMDMFPDASLIRDLQKELDGIQDGVHNITKL IKMSETHKLLNLEGF
 PSGSQSRLSGTLKSQARRTRGTALGSKATEPPSPDAGELSLASRLVQQGLLTPDMLKQLEKEWMTQOTE
 HNKEKTESGTHPKGTRRKKKEPDSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001301683

ORF Size: 1965 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001301683.2](#)

RefSeq Size: 2665 bp

RefSeq ORF: 1968 bp

Locus ID: 6832

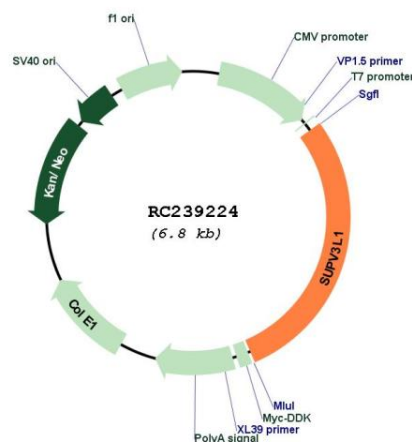
UniProt ID: [Q8IYB8](#)

Cytogenetics: 10q22.1

MW: 74.3 kDa

Gene Summary: Major helicase player in mitochondrial RNA metabolism. Component of the mitochondrial degradosome (mtEXO) complex, that degrades 3' overhang double-stranded RNA with a 3'-to-5' directionality in an ATP-dependent manner. ATPase and ATP-dependent multisubstrate helicase, able to unwind double-stranded (ds) DNA and RNA, and RNA/DNA heteroduplexes in the 5'-to-3' direction. Plays a role in the RNA surveillance system in mitochondria; regulates the stability of mature mRNAs, the removal of aberrantly formed mRNAs and the rapid degradation of non coding processing intermediates. Also implicated in recombination and chromatin maintenance pathways. May protect cells from apoptosis. Associates with mitochondrial DNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239224

