

Product datasheet for **SC118154**

SUPV3L1 (NM_003171) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUPV3L1 (NM_003171) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUPV3L1
Synonyms:	SUV3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003171, the custom clone sequence may differ by one or more nucleotides

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ATGTCCTTCTCCCGTGCCCTATTGTGGGCTCGGCTCCCGCGGGGCGCCAGGCTGGCCACCGGGCAGCCA
TCTGCTCTGCCCTTCGTCCCCACTTTGGGCCCTTTCCCGGGTTCTGGGGCAAGTTTCTGTCTTGCCAC
CGCCTCCTCCTCTGCCTCCGGTGGCTCCAAAATACCAAACACGTCCTTGTTCGTGCCCCGACTGTGAAA
CCTCAGGGCCCCAGCGCCGACGGCGACGTCGGGGCCGAGCTAACC CGGCTCTGGACAAGAATGAAGTAA
AGAAGGTCTTAGACAAATTTTACAAGAGGAAAGAAATTCAGAACTGGGTGCTGATTATGGACTTGATGC
TCGTCTCTTCCACCAAGCTTTCATAAGCTTTAGAAATTATATTATGCAGTCTCATTCCCTGGATGTGGAC
ATTACATTGTTTTGAATGATATTTGCTTCGGTGCAGCTCATGCGGATGATTTATTTCCATTTTTCTTGA
GACATGCCAAACAAATATTTCTGTGTTGGACTGTAAGGATGATCTACGTAATTCAGTGACTTAAGAAT
ACCACCTAACTGGTACCCAGATGCTAGAGCCATGCAGCGGAAGATAATATTTCTTCAGGCCCCACAAAC
AGTGGAAGACTTATCACGCAATCCAGAAATACTTCTCAGCAAAGTCTGGAGTGATTGTGGCCCTCTAA
AATTACTGGCAGATGAGATCTTCGAAAAGAGTAATGCTGCTGGTGTGCCATGTGACTTGGTGACAGGTGA
AGAGCGTGTGACAGTTACGCCAAATGGGAAACAGGCTTCACATGTTTCTGTACAGTTGAGATGTGAGT
GTTACAACCTCTTATGAAGTGGCTGTAATTGATGAAATTCAAATGATTAGAGATCCAGCCAGAGGATGGG
CCTGGACCAGAGCACTTCTAGGACTGTGTGCTGAAGAGGTTCAATTTGTGTGGAGAACCTGCTGCTATTGA
CCTGGTGATGGAGCTTATGTACACAACGGGGGAGGAAGTGGAGGTTTCGAGACTATAAGAGGCTTACCCCC
ATTTCTGTGCTGGACCATGCACTAGAATCTTTAGATAACCTTCGGCTCGGGACTGCATTGTCTGTTTTA
GCAAGAATGATATTTATCTGTGAGTCGGCAGATTGAAATTCGGGGATTAGAATCAGCTGTTATATATGG
CAGTCTCCACCTGGGACCAAACTTGCTCAAGCAAAAAAGTTTAAATGATCCCAATGACCCATGCAAAATC
TTGGTTGCTACAGATGCAATTGGCATGGGACTTAATTTGAGCATAAGGAGAATTATTTTTACTCCCTTA
TAAAGCCAGTATCAATGAAAAGGGAGAGAGAGAACTAGAACCAATCACAACTCTCAAGCCCTGCAGAT
TGCTGGCAGAGCTGGCAGATTACGCTCACGGTTTAAAGAAGGAGAGGTTACAACATGAATCATGAAGAT
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AGACTTTTCACAAGTTGATGGGCAGTATTTGTCTGCAATATGGATGATTTTAAATTTTCTGCAGAGTTG
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CTTTTGTGTGTTCTTCACTGTTACAGTTTGCCAGGCAGTATAGCAGGAATGAGCCCTGACCTTTGCATG
GTTACGCCGATACATCAATGGCCTTTACTTCCACCTAAGAATATTAAGACCTCATGGATCTTGAAGCT
GTCCACGATGTCTTGATCTTTACTTGTGGCTAAGCTACCGATTTATGGATATGTTTCCAGATGCCAGCC
TTATTCGAGATCTCCAGAAAGAACTAGATGGTATTATCCAAGATGGTGTGCACAATATCACTAAATTGAT
TAAATGTCTGAGACGCATAAGCTGTTGAATTTGGAGGGCTTTCCATCAGGGAGCCAGTCACGATTGTCA
GGAACCTTAAAGAGCCAAGCTAGAAGGACACGCGGCACCAAGCTCTAGGGAGTAAAGCTACTGAGCCAC
CCAGCCCCGATGCAGGAGAGCTGTCCCTTGCTCCAGATTGGTGCAGCAAGGACTCCTCACTCCAGACAT
GCTGAAACAGCTAGAAAAAGAGTGGATGACACAACAACTGAACACAACAAAAACAGAGTCTGGG
ACTCATCCAAAAGGGACGAGAAGAAAGAAGGAACCTGATTTCGGACTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003171 unedited
 GTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGTCCGCGGCTGCGCCAG
 ACAGTGTAGAACCTGCGGCTCGATGTCCTTCTCCCGTGCCTATTGTGGGCTCGGCTCC
 CGGCGGGGCGCCAGGCTGGCCACCGGCAGCCATCTGCTCTGCCCTTCGTCCCACTTTG
 GGCCCTTTCCCGGGTCTTGGGGCAAGTTTCTGTCCTTGCCACCGCCTCCTCCTGCTGCT
 CCGGTGGTCCAAAATACCAAACACGTCCTTGTTCGTGCCCTGACTGTGAAACCTCAGG
 GCCCAGCGCCGACGGCGACGTGCGGGCCGAGCTAACCCGGCCTCTGGACAAGAATGAAG
 TAAAGAAAGGTCTTAGACAAATTTTACAAGAGGAAAGAAATTCACAACTGGGTGCTGATT
 ATGGACTTGATGCTCGTCTCTTCCACCAAGCTTTCATAAGCTTTAGAAATTATATTATGC
 AGTCTCATTCCCTGGATGTGGACATTACATTGTTTTGAATGATATTCGCTTCGGTGCAG
 CTCATGCGGATGATTTATTTCCATTTTTCTTGAGACATGCCAAACAAATATTTCTGTG
 TTGGACTGTAAGGATGATCTACGTAAAATCAGTGACTTAAGAATACCACCTAACTGGTA
 CCCAGATGCTAGAGCCCTGCAGCGGAAGATAATTTTCATTAGGCCCCACAAACAGTGG
 AAAGACTTATCAGCCATCCAGAAAACCTCTCAACAAAGCCTGGATGATTGGGGCCTCT
 AAAATACCGGACATGAAATCTTCGAAAGAGTAAGCCGCTGGGGGCCAGTGACTAGTGACA
 GTGAAAACGCGTGACAGTCCACCAAGGAAACAGCTCCACAGTTCCTGGCCACTGAAAG
 GCCCCGCTCAACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003171 unedited
 ACTATGGACCCGCGGCCGAATCTAGAGTCGAGTTNTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTAAAGGATTCAAAATAAATTTTTATTTGCAAAATTAATAAAAAAAAAA
 AAACAGGAACAGAAAACCTAGTCCGAATCAGGTTCTTTCTTTTCTTCTCGTCCCTTTTG
 GATGAGTCCCAAACTCTGTTTTTCTTTGGGGGGTCAAGTTGGGTGGGGCATCCACTCTT
 TTTCTAGCTGTTTCAGCATGTCTGGAGTGAGGAGTCTTGCTGCACCAATCTGGAAGCAA
 GGGACAGTCTCTCTGCATCGGGGCTGGGGGGCTCAATAGCTTTACTCCCTAAAGCTTTGG
 GGCCGCGTGTCCTTCTAGCTTGGCTCTTAAGGGTCTGACAATCGTGACTGGCTCCCTG
 ATGGAAAGCCCTCAAATTAACAGCTTATGCGTCTCAGACATTTTAATCAATTTAGGGA
 TATTGCGCCACCATCTTGGAATACCATCCTAGTCTTTCTGGAGACCTCGAATAAGGCT
 GGCATCTGGAACATATCCATAAATCGGGAGCTTACCCCAAGTAAAGACCCAGACATCGTG
 GACAGCTTCAAGACCCTGAGGCCTTAATATCCTTAGGGGAAGAAAGGCCTTTGATGATCG
 GGGAAACCCTGCAAAAGGCAGGGGCTTTTCCGGTATACGCCTGGAACCGGAACCGGGAAC
 CCCCAGGCTGCTCTGTAAAAGGAACGGGAAAAAAACCCTCTTGCAAACTAGGGAAATG
 CGGATACCCTCGCAAACTTAAATCCCCTTTGGGACAAATCGGCCTCCACCTGGGAACG
 TTCAAATCCTACAGACCGGCATCGTCTTTCTGGCAGGCCGCAACCTTTCATTGCTCC
 GGGAGTAACACCCGCTTATGATCCACGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_003171

Insert Size:

2590 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_003171.2, NP_003162.2</u>
RefSeq Size:	2491 bp
RefSeq ORF:	2361 bp
Locus ID:	6832
UniProt ID:	<u>Q8IYB8</u>
Cytogenetics:	10q22.1
Domains:	helicase_C
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] Transcript Variant: This variant (1) encodes the longest isoform (1).