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Product datasheet for SC337118

SUPV3L1 (NM_001301683) Human Untagged Clone

Product data:

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

Fully Sequenced ORF:

>SC337118 representing NM_001301683.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGTCTCATTCCCTGGATGTGGACATTCACATTGTTTTGAATGATATTTGCTTCGGTGCAGCTCAT
GCGGATGATTTATTCCCATTTTTCTTGAGACATGCCAAACAAATATTTCCTGTGTTGGACTGTAAGGAT
GATCTACGTAAAATCAGTGACTTAAGAATACCACCTAACTGGTACCCAGATGCTAGAGCCATGCAGCGG
AAGATAATATTTCATTCAGGCCCCACAAACAGTGGAAAGACTTATCACGCAATCCAGAAATACTTCTCA
GCAAAGTCTGGAGTGTATTGTGGCCCTCTAAAATTACTGGCACATGAGATCTTCGAAAAGAGTAATGCT
GCTGGTGTGCCATGTGACTTGGTGACAGGTGAAGAGCGTGTGACAGTTCAGCCAAATGGGAAACAGGCT
TCACATGTTTCTTGTACAGTTGAGATGTGCAGTGTTACAACTCCTTATGAAGTGGCTGTAATTGATGAA
ATTCAAATGATTAGAGATCCAGCCAGAGGATGGGCCTGGACCAGAGCACTTCTAGGACTGTGTGCTGAA
GAGGTTCATTTGTGTGGAGAACCTGCTGCTATTGACCTGGTGATGGAGCTTATGTACACAACGGGGGAG
GAAGTGGAGGTTCGAGACTATAAGAGGCTTACCCCCATTTCTGTGCTGGACCATGCACTAGAATCTTTA
GATAACCTTCGGCCTGGGGACTGCATTGTCTGTTTTAGCAAGAATGATATTTATTCTGTGAGTCGGCAG
ATTGAAATTCGGGGATTAGAATCAGCTGTTATATATGGCAGTCTCCCACCTGGGACCAAACTTGCTCAA
GCAAAAAAGTTTAATGATCCCAATGACCCATGCAAAATCTTGGTTGCTACAGATGCAATTGGCATGGGA
CTTAATTTGAGCATAAGGAGAATTATTTTTTACTCCCTTATAAAGCCCAGTATCAATGAAAAGGGAGAG
AGAGAACTAGAACCAATCACAACCTCTCAAGCCCTGCAGATTGCTGGCAGAGCTGGCAGATTCAGCTCA
CGGTTTAAAGAAGGAGAGGTTACAACAATGAATCATGAAGATCTCAGTTTATTAAAGGAAATTTTGAAG
AGGCCTGTGGATCCTATAAGGGCAGCTGGTCTTCATCCAACTGCTGAGCAGATTGAAATGTTTGCCTAC
CATCTCCCTGATGCAACACTGTCCAATCTCATTGATATTTTTGTAGACTTTTCACAAGTTGATGGGCAG
TATTTTGTCTGCAATATGGATGATTTTAAATTTTCTGCAGAGTTGATCCAGCATATTCCACTAAGTCTG
CGAGTGAGGTATGTTTTCTGCACAGCTCCTATCAACAAGAAGCAGCCTTTTGTGTGTTCTTCACTGTTA
CAGTTTGCCAGGCAGTATAGCAGGAATGAGCCCCTGACCTTTGCATGGTTACGCCGATACATCAAATGG
CCTTTACTTCCACCTAAGAATATTAAAGACCTCATGGATCTTGAAGCTGTCCACGATGTCTTGGATCTT
TACTTGTGGCTAAGCTACCGATTTATGGATATGTTTCCAGATGCCAGCCTTATTCGAGATCTCCAGAAA
GAACTAGATGGTATTATCCAAGATGGTGTGCACAATATCACTAAATTGATTAAAATGTCTGAGACGCAT
AAGCTGTTGAATTTGGAGGGCTTTCCATCAGGGAGCCAGTCACGATTGTCAGGAACCTTAAAGAGCCAA
GCTAGAAGGACACGCGGCACCAAAGCTCTAGGGAGTAAAGCTACTGAGCCACCCAGCCCCGATGCAGGA
GAGCTGTCCCTTGCTTCCAGATTGGTGCAGCAAGGACTCCTCACTCCAGACATGCTGAAACAGCTAGAA
AAAGAGTGGATGACACAACAAACTGAACACAACAAAGAAAAAACAGAGTCTGGGACTCATCCAAAAGGG
ACGAGAAGAAAGAAGAAGGAACCTGATTCGGACTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001301683

Insert Size: 1968 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:	NM_001301683.1
RefSeq Size:	2665 bp
RefSeq ORF:	1968 bp
Locus ID:	6832
UniProt ID:	Q8IYB8
Cytogenetics:	10q22.1
MW:	73.9 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] Transcript Variant: This variant (2) contains an alternate exon in the 5' region and uses a downstream start codon compared to variant 1. It encodes isoform 2 which has a shorter N-terminus compared to isoform 1. Variants 2 and 3 both encode the same isoform (2).