

Product datasheet for **RN207173**

Supv3l1 (NM_001012462) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Supv3l1 (NM_001012462) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Supv3l1
Synonyms:	MGC109049
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207173 representing NM_001012462
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTGCCTAGATGTGCCCTGCTGTGGGCTCGGCTCCCGCGGGGCGCGGGGCTGGGCCCGGGCGG
 CTCCTTGCTCCGCTCTTCGCGCTCTCGTGGGGTCGTTCCCGGGGCTTCAGGACGCTTCCTGCTGGC
 CGCCTCCTCTGCTCTGGTGGCTCCAAAGCCCCGAACACGTCCTTGTTCTGCGCGCTGACAGTGAAG
 CCTCAGGGTCCCAGCGCCGATGGCGACGTAGGCGCCGAGCTTACTCGGCTCTGGACAAGAATGAAGTAA
 AGAAGATCTTAGACAAGTTCTATAAGCGCAAGAAATTCAGAAGCTGAGTGTGACTATGGACTTGATGC
 TCGTCTCTCCACCAAGCTTTCATAAGCTTCAGAAATTACATCATGCAGTCTCATTCCCTGGACGTGGAC
 ATCCACATTGTCTGAATGACATCTGCTTCAGTGCAGCTCATGTGGACGATTTGTTCCGTTTTTCTTGA
 GACATGCCAAACAGATATTTCTGTATTGGAATGCAAGGATGACCTACGTCAAATCAGTGACCTGAGGAG
 ACCGCCAACTGGTACCCAGAAGCCAGAGCCATACAGCGGAAGATAATATTCAGTCCAGTCCCACCAAC
 AGTGGGAAGACCTACCACGCAATCCAGAGATACTTGTCAGCGACCTCCGGCGTGTACTGCGGCCCTCTGA
 AGCTGCTGGCGCATGAGATCTTTGAGAAGAGCAATGCCGCTGGTGTGCCGTGTGACTTGGTGACAGGTGA
 AGAGCGGCTGACGGTTGAACCTGAGGGGAAACAAGCCACCCATGTCTCTTGACTGTGGAGATGTGCAAC
 GTTGCAACTCCTTATGAAGTGGCTGTGATCGATGAAATCCAGATGATTCGGGACCCAGCCAGAGGATGGG
 CTTGGACCAGAGCTCTGCTAGGACTCTGTGCTGAGGAAGTCCACCTGTGCGGAGAATCTGCTGCCATTGA
 CCTGGTCACTGAGCTCCTGTACACCACTGGGGAGGAGGTGAGGTTTCAAGTACGAGAGGCTTACCCCC
 ATTTCTGTGCTGGACCGTGCAGTGGAGTCTTTAGACAACCTTCGGCTGGGACTGCATTGTCTGCTTTA
 GCAAGAATGACATTTATCTGTGAGCCGACAGATTGAAATTCGGGGCTGGAATCCGAGTGATATACGG
 CAGCCTGCCGCTGGAACCAAACTTGCTCAAGCAAGAAAGTTTAAATGACCCCAATGATCCGTGCAAAATC
 CTCGTAGCTACAGATGCGATTGGCATGGGACTTAATTTGAGCATAAGGAGAATTATTTTTTACTCCCTTA
 TAAAGCCAGCATCAATGAAAAGGGAGAGAAGGAGCTGGAGCCCATCACCACTCCCAAGCCCTGCAGAT
 CGCGGGCAGAGCCGCGAGATTGAGTCACTTAAAGAGGGGGAGGTGACCACAATGCACCGAGACGAC
 TTGGCTTTATTGAAGGAGATTTGAATAGACCTGTGGATCCTATACAGGCCGCTGGACTTACCCAACTG
 CTGAGCAGATCGAGATGTTTGCCTACCACCTCCCCGAGACAACGCTGTCCAATCTCATTGATATTTTGT
 AGACTTTGCACAAGTCGATGGGAGTACTTTGTCTGCAACATGGATGATTTTAAGTTCTCTGCAGAGCTG
 ATCCAGCATATTCAGTCTCCGGGTGAGGTATGTGTTCTGCACAGCCCCATCAATAAGAAACAGC
 CTTTCGTCTGCTCGTCTCTTACAGTTTGCCAGGCAGTACAGCAGGAATGAGCCCTGACCTTTGCCTG
 GCTACGCCGCTACATCAAGTGGCCTCTGCTCCACCTAAGAACATTAAAGACCTCATGGATCTTGAAGCT
 GTCCATGATGTCTTTGATCTTTACCTGTGGCTAAGCTACCGATTTATTGATATGTTTCCAGACTCCAGCT
 TTGTTCCGAGTCTCCAGAAAGAACTGGATGTCATTATCCAAGAAGGTGTGCACAAATACACCAAACTGAT
 TAAAATCTCTGAGTCACACAAGCTCTTGAATCTGGAGCCATCAGGGAGCCAGTCACGTTTGCCAGGAGCC
 TCCAAGAGCCAGCTAGAAGGACACGTGGCACTAAAACAGGGAATAAGGCGGCAGAGCCACCCAGCCCCA
 GTGACAAGGAGCTGCCCTTGCCTCTAGGCTGGTGCAGCAAGGACTCCTCACTGCAGACATGCTGAAGCA
 GCTTCAGAAGGAGTGGCTGACACAACGCCAGAACAAGCAAGAGAAAGTGGGGACACGGAGAAAGAAG
 AAGGACCCCACTCTGAT**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001012462
Insert Size: 2331 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_001012462.1, NP_001012480.1</u>
RefSeq Size:	2415 bp
RefSeq ORF:	2331 bp
Locus ID:	294385
UniProt ID:	<u>Q5EBA1</u>
Cytogenetics:	20q11
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]