

Product datasheet for **RC236988**

RNPS1 (NM_001286627) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNPS1 (NM_001286627) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RNPS1
Synonyms: E5.1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236988 representing NM_001286627
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATCGCTCAAAGATAAAG
GGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGCCGGGACAAAACCCGAAAGAGGGCGCAGCGCTTCCAG
TGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCCAGCACTGGCTCA
AGCAGTGGCTCCAGCTTCTCCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAA
ATCCAAACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCATCTCCTAAGCCCACCAAAGTG
CACATTGGGAGACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAA
TTAAAATGATTGACATGCCCGTGGAAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACGTAGAGTT
TGAGAATCCAGATGAAGCCGAGAAGGCGCTGAAGCACATGGATGGAGGTCCCGCTCCCGAGGCGCAGGT
CCCCGTGCGCCGAGATCACGGTCCCCGGCCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCTC
CGATAAACAGGCCACTGAAGTCTCGCCCTGTAACCTATACCCACCCAGCTCAGTTTTGTCACTTTT
C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236988 representing NM_001286627
 Red=Cloning site Green=Tags(s)

MAPSPTRKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASSGSSSTRSRSSSTSSSGSSTSTGS
 SSGSSSSASSRSGSSSTRSSSSSSSSGSPSPSRRRHDNRSSRSKSKPPKRDEKERKRRSPSPKPTKV
 HIGRLTRNVTKDHIMEIFSTYGIKIMIDMPVERMHPLSKGYAYVEFENPDEAEKALKHMDGGPAPRGAG
 PPCAGDHGPAAAAATGAAPAPTPPDKQATEALAPVITYTPPSSVLSLF

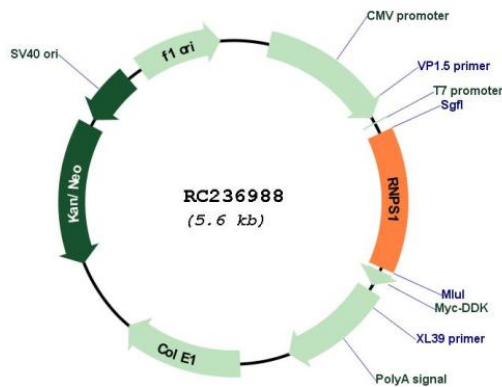
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286627

ORF Size: 771 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:	<ol style="list-style-type: none">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_001286627.2
RefSeq Size:	1921 bp
RefSeq ORF:	774 bp
Locus ID:	10921
UniProt ID:	Q15287
Cytogenetics:	16p13.3
Protein Families:	Transcription Factors
MW:	27.9 kDa
Gene Summary:	This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein binds to the mRNA and remains bound after nuclear export, acting as a nucleocytoplasmic shuttling protein. This protein contains many serine residues. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]