

Product datasheet for **RC237338**

RNPS1 (NM_001286625) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNPS1 (NM_001286625) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RNPS1
Synonyms: E5.1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC237338 representing NM_001286625
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATTTATCAGGAGTGAAGAAAGAGCTTGCTAGGAGTCAAAGAAAATAATAAAAAGTCCAGCACTA
 GGGCTCCTTACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCAAGGATCGCTCAAAGATAAAGG
 GGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGACAAAACCCGAAAGAGGCGCAGCGTTCCAGT
 GGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTGGCTCAA
 GCAGTGGCTCCAGCTCTCCTCAGCATCCAGCCGCTCAGGAAGTCCAGCACCTCCGCGAGCTCCAGCTC
 TAGCAGCTCTTCTGGCTCTCCAAGTCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAA
 TCCAAACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCACCAAAGTGC
 ACATTGGGAGACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAAT
 TAAAATGATTGACATGCCCGTGGAAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACGTAGAGTTT
 GAGAATCCAGATGAAGCCGAGAAGGCGCTGAAGCATGGATGGAGGACAAATTGATGGCCAGGAGATCA
 CTGCCACCGCGTGTGGCCCCCTGGCTAGGCCACCCCCAGGAGATTCAGCCCTCCAGGAGAATGTT
 GCCACCACCGCTATGTGGCGCAGGTCTCCCCACGGATGAGGAGAAGGTCCCGCTCCCCGAGGCGCAGG
 TCCCCGTGCGCCGGAGATCACGGTCCCCGGCCGCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCT
 CCCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237338 representing NM_001286625
Red=Cloning site Green=Tags(s)

```
MDLSGVKKKSLLGVKENKKSSTRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASS
GSSSTRSRSSSTSSSGSSTSTGSSSGSSSSASSRSGSSSTRSSSSSSSSGSPSPSRRRHDNRRRSRSK
SKPPKRDEKERKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGIKIMIDMPVERMHPHLSKGYAYVEF
ENPDEAEKALKHMDGGQIDGQEITATAVLAPWPRPPRRFSPRRRMLPPPPMWRRSPPRMRRRSRSPRRR
SPVRRRSRSPGRRRHRSRSSNSSR
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6288_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286625

ORF Size: 915 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.

RefSeq: [NM_001286625.1](#), [NP_001273554.1](#)

RefSeq Size: 2056 bp

RefSeq ORF: 918 bp

Locus ID: 10921

UniProt ID: [Q15287](#)

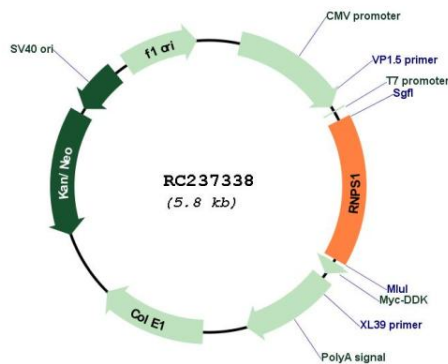
Cytogenetics: 16p13.3

Protein Families: Transcription Factors

MW: 34.2 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]

Product images:



Circular map for RC237338