

## Product datasheet for **RG237338**

### **RNPS1 (NM\_001286625) Human Tagged ORF Clone**

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | RNPS1 (NM_001286625) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP   |
| Symbol:                   | RNPS1  |
| Synonyms:                 | E5.1   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >RG237338 representing NM_001286625.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAAATAATAAAAAGTCCAGCACT
AGGGCTCCTTACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATCGCTCAAAGATAAA
GGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCAGCGCTTCC
AGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTGGC
TCAAGCAGTGGCTCCAGCTCTTCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCC
AGCTCTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGC
TCCAAATCCAAACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACC
AAAGTGACATTGGGAGACTCACCCGGAATGTGACAAAAGGATCACATCATGGAGATATTTTCCACCTAT
GGGAAAATTAATGATTGACATGCCCGTGAAAGGATGCATCCCATCTGTCCAAGGCTATGCGTAC
GTAGAGTTTGAGAATCCAGATGAAGCCGAGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGC
CAGGAGATCACTGCCACCGCGTGTGGCCCCCTGGCCTAGGCCACCCCCAGGAGATTCAGCCCTCCC
AGGAGAATGTTGCCACCACCGCCTATGTGGCGCAGGTCTCCCCACGGATGAGGAGAAGTCCCCTCC
CCGAGGCGCAGTCCCCCGTGCGCCGAGATCACGGTCCCCGGGCCGCCGCCACAGGAGCCGCTCC
AGCTCCAACTCCTCCGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237338  
 Blue=ORF Red=Cloning site Green=Tag(s)

MDLSGVKKKSLLVGKKNKKSSTRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSAS  
 SGSSSTRSRSSSTSSSGSSTSTGSSSGSSSSASRSRSGSSTSRSSSSSSSGSPSPRRRHDRRRSR  
 SKSKPPKRDEKERKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGIKIMIDMPVERMHPHLSKGYAY  
 VEFENPDEAEKALKHMDGGQIDGQEITATAVLAPWPRPPRRFSPRRMLPPPMWRRSPPRMRRRSR  
 PRRRSPVRRRSRSPGRRRHRSSNSSR  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**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).

**RefSeq:** [NM\\_001286625.1](#), [NP\\_001273554.1](#)

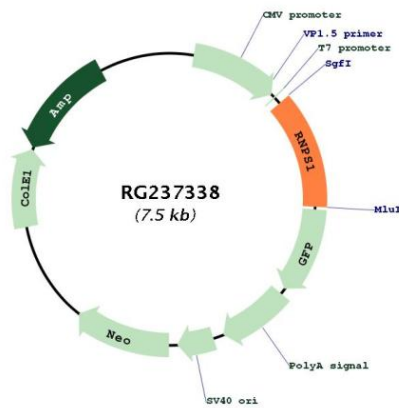
**RefSeq Size:** 2056 bp

**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 RG237338