

## Product datasheet for **RG236988**

### **RNPS1 (NM\_001286627) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RNPS1 (NM_001286627) 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:	>RG236988 representing NM_001286627. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTCCTTACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATCGCTCAAAGATAAA
GGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCAGCGCTTCC
AGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCCAGCACTGGC
TCAAGCAGTGGCTCCAGCTCTTCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCC
AGCTCTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGC
TCCAAATCAAACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGCGGAGCCCATCTCCTAAGCCCACC
AAAGTGCACATTGGGAGACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTAT
GGGAAAATTTAAATGATTGACATGCCCGTGAAAAGGATGCATCCCCATCTGTCCAAGGCTATGCGTAC
GTAGAGTTTGAGAATCCAGATGAAGCCGAGAAGGCGCTGAAGCACATGGATGGAGGTCCCCTCCCGA
GGCGCAGGTCCCCGTGCCCGGAGATCACGGTCCCCGGGCCGCCGCCACAGGAGCCGCTCCAGCT
CCAACCTCTCCGATAAACAGGCCACTGAAGCTCTCGCCCTGTAACCTATACCCACCCAGCTCAGTT
TTGTCACTTTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236988  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAPSPTKRKRDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASSGSSSTRSRSSSTSSSGSSTSTG  
 SSSGSSSSASSRSGSSSTRSSSSSSSSGSPSPSRRRHDNRRRSRKSPPKRDEKERKRRSPSPKPT  
 KVHIGRLTRNVTKDHIMEIFSTYGIKIMIDMPVERMHPLSKGYAYVEFENPDEAEKALKHMDGGPAPR  
 GAGPPCAGDHGPRAAAATGAAPAPTPDPKQATEALAPVYTPPSSVLSLF  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

**RefSeq:** [NM\\_001286627.2](#)

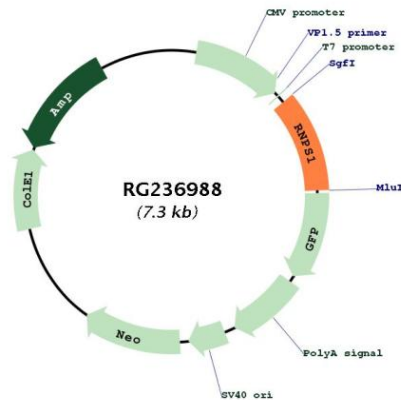
**RefSeq Size:** 1921 bp

**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]

**Product images:**



Circular map for RG236988