

Product datasheet for **RG215882**

RNPS1 (NM_080594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNPS1 (NM_080594) 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:	>RG215882 representing NM_080594 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAAATAATAAAAAGTCCAGCACTA
GGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATCGCTCAAAGATAAAGG
GGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCAGCGCTCCAGT
GGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTGGCTCAA
GCAGTGGCTCCAGCTCTCCTCAGCATCCAGCCGCTCAGGAAGTCCAGCACCTCCGCGAGCTCCAGCTC
TAGCAGCTCTTCTGGCTCTCCAAGTCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAA
TCCAAACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCACCAAAGTGC
ACATTGGGAGACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAAT
TAAATGATTGACATGCCCGTGGAAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACGTAGAGTTT
GAGAATCCAGATGAAGCCGAGAAGGCGCTGAAGCATGGATGGAGGACAAATTGATGGCCAGGAGATCA
CTGCCACCGCGTGTGGCCCCCTGGCTAGGCCACCCCCAGGAGATTCAGCCCTCCAGGAGAATGTT
GCCACCACCGCTATGTGGCGCAGGTCTCCCCACGGATGAGGAGAAGGTCCCGCTCCCCGAGGCGCAGG
TCCCCGTGCGCCGGAGATCACGGTCCCCGGGCCGCCGCCACAGGAGCCGCTCCAGTCCAACCTCCT
CCCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215882 representing NM_080594
 Red=Cloning site Green=Tags(s)

MDLSGVKKKSLLVKKNKSSSTRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASS
 GSSSTRSRSSSTSSGSSSTSTGSSSGSSSSASSRSGSSSTSRSSSSSSSSGSPSPSRRRHDNRRRSRSK
 SKPPKRDEKERRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGIKIMIDMPVERMHPHLSKGYAYVEF
 ENPDEAEKALKHMDGGQIDGQEITATAVLAPWPRPPRRFSPRRMLPPPPMWRSSPPMRRRSRSPRRR
 SPVRRRSRSPGRRRRHSRSSNSSR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080594

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_080594.4](#)

RefSeq Size: 1963 bp

RefSeq ORF: 918 bp

Locus ID: 10921

UniProt ID: [Q15287](#)

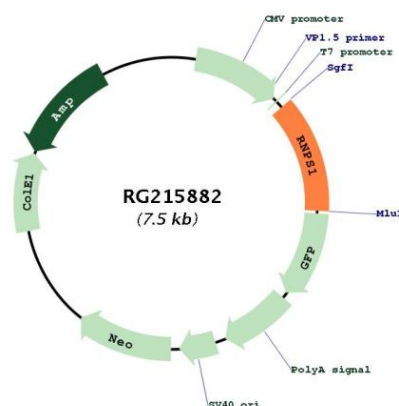
Cytogenetics: 16p13.3

Domains: RRM

Protein Families: Transcription Factors

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 RG215882