

## Product datasheet for **SC334882**

### **RNPS1 (NM\_001286627) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RNPS1 (NM_001286627) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNPS1
Synonyms:	E5.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286627, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATCGCTCAAAGATAAAG
GGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCAGCGCTTCCAG
TGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTGGCTCA
AGCAGTGGCTCCAGCTTCTCCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAA
ATCCAAACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACAAAGTG
CACATTGGGAGACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAA
TTAAAATGATTGACATGCCCGTGAAAGGATGCATCCCATCTGTCCAAAGGCTATGCGTAGCTAGAGTT
TGAGAATCCAGATGAAGCCGAGAAGGCGCTGAAGCACATGGATGGAGGTCCCGCTCCCGGAGGCGCAGGT
CCCCCGTGCGCCGAGATCACGGTCCCCGGGCCCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCTC
CCGATAAACAGGCCACTGAAGCTCTCGCCCTGTAACCTATACCCACCCAGCTCAGTTTTGTCACTTTT
CTAG
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001286627
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001286627.1, NP_001273556.1</u>
<b>RefSeq Size:</b>	1921 bp
<b>RefSeq ORF:</b>	774 bp
<b>Locus ID:</b>	10921
<b>UniProt ID:</b>	<u>Q15287</u>
<b>Cytogenetics:</b>	16p13.3
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) lacks two alternate exons compared to variant 2. The resulting isoform (c) has shorter and distinct N- and C-termini compared to isoform a.</p>