

## Product datasheet for **SC120334**

### **RNPS1 (NM\_080594) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RNPS1 (NM_080594) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNPS1
Synonyms:	E5.1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080594, the custom clone sequence may differ by one or more nucleotides

```
ATGGATTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAAATAATAAAAAGTCCAGCACTA
GGGCTCCTTACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATCGCTCAAAGATAAAGG
GGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCAGCGCTTCCAGT
GGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTGGCTCAA
GCAGTGGCTCCAGCTCTTCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCTC
TAGCAGCTCTTCTGGCTCTCAAGTCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAA
TCCAAACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCACCAAAGTGC
ACATTGGGAGACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAAT
TAAAATGATTGACATGCCCGTGGAAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACGTAGAGTTT
GAGAATCCAGATGAAGCCGAGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCA
CTGCCACCGCGTGTGGCCCCCTGGCCTAGGCCACCCCCAGGAGATTCAGCCCTCCAGGAGAATGTT
GCCACCACCGCTATGTGGCGCAGGTCTCCCCACGGATGAGGAGAAGGTCCCGCTCCCGAGGCGCAGG
TCCCCGTGCGCCGAGATCACGGTCCCCGGGCCGCCGCCACAGGAGCCGCTCCAGTCCAACCTCT
CCCATAA
```



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**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_080594 unedited
ACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCCTCGTGCCGAATTCGGCACGA
GCGAGGTTCGGCGTGTTCGGGCCGGTGTTCGGCGGGCGCGGAGTTTCTTTGTGGGATGCGGTG
GAAGGTCGGCCGATCCCCCTTCGGAGTCATTAATTCAAACGTGTACTCCGCAACGTTTT
CCCGACTCCCCTGTGCAATTATCGGCGCTAGGCCGTGGGGATACGGCCACTATGGACC
GAGCAGGTGGCCGAGCTCAGTTTGATGGGTACCCAGAGGGGGCGGATACGGGAAGGTT
AAGTTTGTGGAGGAGAAACGTGGAGTAGGCTTTTTGTCTTGATTCCGCATGAAGTGTGC
CTGAAATGTACTTTTAAATGGGGAAGGTGCTCTGAAGATTTGTGCCGAAACGCCCTCTCC
TCGAGATTTAACTAATTGTTCTCTCTCTCTCTGCTGTTGGACGCGCACCTTTCCGGAG
GATGGGGGAGGTAACCGAGGTCCTGAGCCGGTACCTGAAGTTGGGCTGCTCTTTGGCGTA
AATTGCAATCATTAGGGGATCGTTTCTCAGAATCAGTTAGAAGTGAAGTTCAGATAAGT
GAGGCCGCCATTGCTGCTTTGAACACCTCAGAAGGGGAGAAATGGATNTATCANGAGTGA
AAAAGAAGAGCTTNGCTANGAGTCAAAGAAATAATTNAAAAAGTCCAGCACTAGGGGCTC
CCCTTACCTACCAACGCAAGACCGCTCAAAGANGAGAGTCCCAAGGATCGCTCAAGAAA
NNAAGGGCANCCANGNATTCAGTGGGAAAAGGAATCGGCGCCGGGACATACCCGAAGA
GCGCACGCTTCCANTGTANAGAGTACCNGNNTNCTGGTCAAAGTACTTAAANNNTAG
GCTCACACCAGACTGTTTTAAAGAGGTGTTCCAGCTTTTCTACATCANCCTTTAAGAG
GCTCAGACCTCCGCACTCAGTCTAAANATTTTGGGTTTCAAACCTTTTGGGA
```

**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_080594 unedited
ATGAACCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTGGATTTGCATTCC
GATCTTGGGTTTATTCAACACAATTCTTCCACTCTACACAACAAAGTACAAACACAATGT
CATCTAAAATGCTACAAAAGGTATAAACTCAAAGAGAAAATTTATAGTACTGACTGTAC
AATGAAAGCAAAAAGAAAAAAATAAAAGCAATGTACATGTTGCCAAGATAACCTGAAA
GACCACCATGAACGGCAGGCACAACCATGGCTGCGTGATGACTCCGCAGAGCTGGCTCTC
CACTCACTCGCCAATTTCAAAGTACAGTGGTGGGGTGGGTGTGTGCATCGGTGCACGGA
CAGACAGAACACGAGCAGCAACTACCATGGGTGAGAGGATCTTTGAGGGGGTGTGACCC
TTGAGATCAGAAGAGGCTCGAGAGGCCAGGCCTAACAGGGTTGGCAGCTGCACTAAAGC
CTGGGGCAGCTCCCTTCCAAAAGGACTGCCCCAACAGCAAGGGCACGGCTGGCC
ACCATCCCAGGTGATCGGGGAAGGAAAAGTGTCTCCAGGTAAGCAGGGTCAAACCACT
CCCAAGAGCTCACTTTTGCTGGGGGCTCTGGCACTGAAGTACTTAAACCCG
AAACGGATGAGCTTTCTAACCCAAAAAACCAGGGAATCTTGACAGGCACACAGCAT
TCCAACCAACCGCCCTTTTGAAACCGGGGCCCCGGTTGTCAAAGGGTGTCTCCTCTGC
CTTCAAATCTGCCACAGAAAGGTTTCTTTCTCACGGCCTTCTTGGCGTAAAAAA
GACAAAACGCGCGGGGGGTTAAGTACCAGGCAAAAACCTTATGCGCCCCTA
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_080594

**Insert Size:**

2660 bp

**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).

**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).

<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><a href="#">NM_080594.1</a></u> , <u><a href="#">NP_542161.1</a></u>
<b>RefSeq Size:</b>	1963 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	10921
<b>UniProt ID:</b>	<u><a href="#">Q15287</a></u>
<b>Cytogenetics:</b>	16p13.3
<b>Domains:</b>	RRM
<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 (2) represents the predominant transcript and encodes the longest isoform (a). Variants 1, 2, and 3 all encode the same isoform (a).</p>