

## Product datasheet for **SC119514**

### **RPS4X (NM\_001007) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPS4X (NM_001007) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS4X
Synonyms:	CCG2; DXS306; RPS4; S4; SCAR; SCR10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119514 sequence for NM_001007 edited (data generated by NextGen Sequencing)

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ATGGCTCGTGGTCCCAAGAAGCATCTGAAGCGGGTGGCAGCTCCAAAGCATTGGATGCTG
GATAAATTGACCGGTGTGTTTGCTCCTCGTCCATCCACCGGTCCCACAAGTTGAGAGAG
TGTCTCCCCCTCATCATTTTCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAA
GTAAAGAAGATTTGCATGCAGCGGTTTCAATAAAATCGATGGCAAGGTCCGAACTGATATA
ACCTACCCTGCTGGATTCATGGATGTCATCAGCATTGACAAGACGGGAGAGAATTTCCGT
CTGATCTATGACACCAAGGGTCGCTTTGCTGTACATCGTATTACACCTGAGGAGGCCAAG
TACAAGTTGTGCAAAGTGAGAAAGATCTTTGTGGGCACAAAAGGAATCCCTCATCTGGT
ACTCATGATGCCCGCACCATCCGCTACCCCGATCCCCTCATCAAGGTGAATGATACCATT
CAGATTGATTTGGAGACTGGCAAGATTACTGATTTTCATCAAGTTCGACACTGGTAACCTG
TGTATGGTGACTGGAGGTGCTAACCTAGGAAGAATTGGTGTGATACCAACAGAGAGAGG
CACCCTGGATCTTTTGACGTGGTTCACGTGAAAGATGCCAATGGCAACAGCTTTGCCACT
CGACTTTCCAACATTTTTGTTATTGGCAAGGGCAACAAACCATGGATTTCTTTCCCCGA
GGAAAGGGTATCCGCCTCACCATTGCTGAAGAGAGAGACAAAAGACTGGCGGCCAAACAG
AGCAGTGGGTGA
```

Clone variation with respect to NM\_001007.4



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001007 unedited  
 NTGTCACTATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGCGCAGCCAT  
 GGCTCGTGGTCCCAAAAAGCATCTGAAGCGGGTGGCAGNCTCCAAAGCATTGGATGCTGG  
 ATAAATTGACCGGTGTGTTTGTCTCTCGTCCATCCACCGTCCCCACAAGTTGAGAGAGT  
 GTCTCCCCCTCATCATTTTCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAAG  
 TAAAGAAGATTTGCATGCAGCGGTTTATTAAAAATCGATGGCAAGGTCGAACTGATATAA  
 CCTACCCTGTGGATTCATGGATGTCATCAGCATTGACAAGACGGGAGAGAATTTCCGTC  
 TGATCTATGACACCAAGGTCGCTTTGCTGTACATCGTATTACACCTGAGGAGGCCAAGT  
 ACAAGTTGTGCAAGTGAGAAAGATCTTTGTGGGCACAAAAGGAATCCCTCATCTGGTGA  
 CTCATGATGCCCCACCATCCGCTACCCCGATCCCCTCATCAAGGTGAATGATACCATT  
 AGATTGATTTGGAGACTGGCAAGATTACTGATTTTCAAGTTGACACTGGTAACCTGT  
 GTATGGTGACTGGAGGTGCTAACCTAGGAAGAATTGGTGTGATCACCAACAGAGAGAGGC  
 ACCCTGGATCTTTGACGTGGTTCACGTGAAAGATGCCAATGGCAACAGCTTTGCCACTC  
 GACTNTCCAACATTTTTGTTATTGGCAAGGGCAACAAACCATGGATTTCTTTCCCGAG  
 GAAAGGTATTGCTCACCATTGCTGAAGAGAGACANAAGACTGGCGGCCAAACAGA  
 GCAGTGGGTGAAAAGGTCCTGTGTGACATGTGATCTTTGTACGTAATTTAAAAATTG  
 TGGCAGGAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001007 unedited  
 NTAAGCTTGGACCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTGTATTAAACCTGCCACAATTTTTTAATTACCTACAAAAAT  
 CTGACATGTCACCAAGGACCCATTTACCCACTGGTTTGTGGCCGCAATCTTTTGT  
 CTCTTTTTTCAACAATGGGGAGGGGATACCCTTTCCTTGGGAAAAAAAACCATGGGT  
 TGGTGCCTTGCCAATAACAAAAATGTTGGAAAGTCCAGTGGCAAAACTGTTGCCATTGG  
 CATTTTTTACGTGAACACGTCAAAAAACCAAGGGCCTCTCTTTGTTGGGGAACACAC  
 CAATTTCTTAAAGTAAACACCTCCAGTACCATACACAGGGTACCAATGGCGAACTTGA  
 TGAAAAACAATACTTGGCAGTCTCAAAAAAATCTGAATGGGATCATTACCTTGATGA  
 AGGGATCGGGGTAAACGGATGGTGCAGGATCATGAGTACCAAAAGAGGGATTCTTTTGT  
 TGCCACAAAAAACTTTCTACTTTGCACAACCTGACTTGGCCTTCTCAAGTGAATAC  
 GATGTACACCAAAAGCGACCTTGGTGTCAATAAATAAACCAGAAATTTCTCCCGCTGTGC  
 AATGCGTGAGACCTCCATGAATCCAACAGGGAAGGTATATTAATTCGGACCTTGCATC  
 GATTTTAAAAAACCCCTGACAGGAAAAATTTTTTACTTTATCTTCTGTAGGGCACAAAT  
 AAAGTCTTTTCCCAGAGAAATAAAAAGGGGGAACACCTTTTCTACCTTGGGGGACCCG  
 GGAAAGACAAAGAACAACCCCGGCAATTAACCCACCCCAATCTTTTGGAACGGCACC  
 CGCTTAAATACTNNTGTGAACAAAACACAGTGTGGCTCCGGCAAAATCAAGCCCCCTA  
 TATAGCATAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001007

**Insert Size:**

840 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>	<a href="#">NM_001007.3</a> , <a href="#">NP_000998.1</a>
<b>RefSeq Size:</b>	977 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	6191
<b>UniProt ID:</b>	<a href="#">P62701</a>
<b>Cytogenetics:</b>	Xq13.1
<b>Domains:</b>	Ribosomal_S4e, S4, KOW
<b>Protein Pathways:</b>	Ribosome
<b>Gene Summary:</b>	<p>Cytoplasmic ribosomes, organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes ribosomal protein S4, a component of the 40S subunit. Ribosomal protein S4 is the only ribosomal protein known to be encoded by more than one gene, namely this gene and ribosomal protein S4, Y-linked (RPS4Y). The 2 isoforms encoded by these genes are not identical, but are functionally equivalent. Ribosomal protein S4 belongs to the S4E family of ribosomal proteins. This gene is not subject to X-inactivation. It has been suggested that haploinsufficiency of the ribosomal protein S4 genes plays a role in Turner syndrome; however, this hypothesis is controversial. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008]</p>