

Product datasheet for **SC119515**

RPS4Y1 (NM_001008) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPS4Y1 (NM_001008) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS4Y1
Synonyms:	RPS4Y; S4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119515 sequence for NM_001008 edited (data generated by NextGen Sequencing)

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ATGGCCCCGGGCCCAAGAAGCACTTAAAGCGTGTTCAGCGCCGAAGCATTGGATGCTT
GACAAACTAACGGGTGTATTTGCACCTCGTCCATCGACAGGTCCCACAAAGCTGAGGGAA
TGTCTTCTCTGATCGTCTTCTCAGGAATAGACTCAAGTATGCGTTGACTGGAGATGAG
GTAAAGAAGATATGTATGCAACGTTTCATCAAATTTGATGGCAAGGTTTCGAGTGGATGTC
ACATACCCTGCTGGATTCATGGATGTCATCAGCATCGAGAAGACAGGTGAACATTTCCGC
CTGGTCTATGACACCAAGGGCCGTTTTGCTGTTACCCGCATCACAGTGAAGAGGGCAAAG
TACAAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGTGAAGGGAATCCCTCACCTGGT
ACTCATGATGCTCGAACCATCCGCTACCCAGATCCTGTCATCAAGGTGAACGATACTGTG
CAGATTGATTTAGGGACTGGCAAGATAATCAACTTTATCAAATTTGATACAGGCAATTTG
TGTATGGTGATTGGTGGAGCCAACCTCGGTCGTGTTGGTGTGATACCAACAGGGAAAGA
CATCTCTGGTTCTTTTGTGTTGTCATGTGAAGGATGCCAATGGCAACAGCTTTGCCACG
AGGCTTTCCAACATTTTGTGATTGGCAATGGCAATAAACCTTGGATTTCCCTGCCACAG
GGAAAGGGCATTGCACTTACTGTTGCTGAAGAGAGAGATAAGAGGCTGGCCACCAAAACAG
AGCAGTGGCTAA
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Clone variation with respect to NM_001008.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001008 unedited</p> <pre>CGTCACATTTGTATACGACTCATATAGGCGGCCGCTGAATTCGCACGAGGCCCTCGTGCCG AATTTCGGCAGCAGGGTTTTCGCCATGGCCCGGGGCCCAAGAAGCACTTAAAGCGTGTTC AGCGCCGAAGCATTGGATGCTTGACAACTAACGGGTGATTTGCACCTCGTCCATCGAC AGGTCCCCACAAGCTGAGGGAATGTCTTCTCTGATCGTCTTCTCAGGAATAGACTCAA GTATGCGTTGACTGGAGATGAGGTAAAGAAGATATGTATGCAACGTTTCATCAAAATTGA TGGCAAGGTTTCGAGTGGATGTCACATACCCTGCTGGATTCATGGATGTCATCAGCATCGA GAAGACAGGTGAACATTTCCGCCTGGTCTATGACACCAAGGGCCGTTTTGCTGTTACCG CATCACAGTGGAAGAGGCAAAGTACAAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGT GAAGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACCATCCGCTACCCAGATCCTGT CATCAAGTGAAACGATACTGTGCAGATTGATTTAGGGACTGGCAAGATAATCAACTTTAT CAAATTTGATACAGGCAATTTGTGTATGGTGATTGGTGGAGCCAACCTCGGTGCTGTTGG TGTGATCACCAACAGGAAAGACATCCTGGTCTTTTGTGTGGTGCATGTGAAGGATGC CAATGGCAACAGCTTTGCCACGAGGCTTCCAACATTTTGTGATTGGCCATGGCAATAA CACATTGGAGTCCNTGCCAGNGGNACAGGGCATTTCGACTTACTGNTGCTGAAGAGAGA GATAGAAGCTGGCCACCAACAGAGCATGGCTAAATGCAGTAGCACATATCTTTTTTCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001008 unedited</p> <pre>GGCCATGAATCCTTGTTCAAGNAAAAAGNAATGCTGCTACTGCAATTTATCCACTGCTC TGTTTTGGTGGCCAGCCTCTTATCTCTCTTTCAGCAACAGTAAGTCAATGCCCTTTCCC CTGGGCAGGGAATCCAAGGTTTATTGCCATTGCCAATGACAAAAATGTTGAAAGCCTC GTGGCAAAGCTGTTGCCATTGGCATCCTTCACATGCACCACATCAAAAGAACCAGGATGT CTTTCCTGTTGGTGATCACACCAACACGACCGATGTTGGCTCCACCAATCACCATACAC AAATTGCCTGTATCAAATTTGATAAAGTTGATTATCTTGCCAGTCCCTAAATCAATCTGC ACAGTATCGTTACCTTGATGACAGGATCTGGGTAGCGGATGGTTCGAGCATCATGAGTC ACCAGGTGAGGGATTCCCTTCACTCCCACAGTAATCTTCTCACTTTGCACAACCTGTAC TTTGCCTCTTCCACTGTGATGCGGTGAACAGCAAAACGGCCCTTGGTGTGATAGACCATG CGGAAATGTTACCTGTCTTCTCGATGCTGATGACATCCATGAATCCAGCATGGTATGTG ACATCCACTCGAACCTTGCCATCAATNTGATGAAACGTTGCATACATATCTTCTTACC TCATCTCCAGTCAACGCATACTTGAGTCTATTCCTGATGAATACGATCAGATGAAGACAT TCCCTCAGCTTGTGGGGACCTGTGATGGACGATGCAAAATACACCCGCTATTTGTCAAG CATCCATGCTTCGGCGCTGCACACGCTTTAGTGCTTCTTGGGGCCCGGGCCTTGCAGAAA CCTCTTGCCGATTGACACCGAGCCCTGTGCCGATTCCGGCCGCCATATGATTGTTTCA AATTCTGACGTTCACTAACCCACCTGGTTTTTATACCTCCACGAAACCCTACGCCCATTG GTTAAGGGCGGGGTTTTCTACTT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001008
Insert Size:	980 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).

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_001008.3](#), [NP_000999.1](#)

RefSeq Size: 910 bp

RefSeq ORF: 792 bp

Locus ID: 6192

UniProt ID: [P22090](#)

Cytogenetics: Yp11.2

Domains: Ribosomal_S4e, S4, KOW

Protein Pathways: Ribosome

Gene Summary: 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, X-linked (RPS4X). 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. 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]