

Product datasheet for **SC119522**

Ribosomal protein S10 (RPS10) (NM_001014) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribosomal protein S10 (RPS10) (NM_001014) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ribosomal protein S10
Synonyms:	DBA9; S10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119522 sequence for NM_001014 edited (data generated by NextGen Sequencing)

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ATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGAACTCCTTTTTAAGGAGGGAGTC
ATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGAGCTGGCAGACAAGAATGTG
CCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAA
CAGTTTGCCTGGAGACATTTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGT
GATTACCTTCATCTGCCCGGAGATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAG
ACTGGCAGGCCTCGGCCTAAAGGTCTGGAGGGTGAGCGACCTGCGAGACTCACAAGAGGG
GAAGCTGACAGAGATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCGACAAGAAAGCC
GAGGCTGGGGCTGGGTGAGCAACCGAATTCCAGTTTAGAGGCGGATTTGGTCGTGGACGT
GGTCAGCCACCTCAGTAA
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Clone variation with respect to NM_001014.4

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001014 unedited CACGAGGCCTGCAGCCGAGAGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGA ACTCCTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCC GGAGCTGGCAGACAAGAATGTGCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAA GTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACATTTCTACTGGTACCTTACCA TGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCGGAGATTGTGCCTGCCAC CCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGGAGGGTGAGCG ACCTGCGAGACTCACAAGAGGGGAAGCTGACAGAGATACCTACAGACGGAGTGCTGTGCC ACCTGGTCCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAATTCCAGTTTAG AGGCGGATTTGGTCGTGGACGTGGTCAGCCACCTCAGTAAATTTGGAGAGGATTCTTTTG CATTGAATAAACTTACAGCCN
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001014 unedited TGAAGTTTCATCATGGCAAATATCCTCTCCATTTACTGAGGTGGCTGACCACGTCCAC GACCAAATCCGCCTCTAAACTGGAATTCGGTTGCTGACCCAGCCCAGCCTCGGCTTTCT TGTCGGCACCAGGTGGCAGCACTCCGTCTGTAGGTATCTGTGTCAGCTTCCCCTTTG TGAGTCTCGCAGGTGCTCACCCTCCATACCTTTATGCCGAGGCCTGCCAGTCTCTGGAC GGCTACGGCGTAAGGTGGCAGGCACAATCTCCGGGGCAGATGAAGGTAATCACGGAGAT ACTGGATACCCCTATTGGTAAGGTACCAGTAGAAATGTCTCCAGGCAAACCTGTTCCCTCA CGTAGCCTCGGGACTTGAGAGACTGCATGGCCTTCATGACATGAAGGTTGGGCACATTCT TGCTGCCAGCTCCGGGTGCTTATGCATGTGGACATCCTTCTTGCCACCATGACTCCCT CCTAAAAAGGAGTTCATAAATGGCAATCCGGTCTTCTTATGCATCAACATCTCTGCGG CTGCAGGCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGA CGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGCCATT TGCGTCAACGGGGCGGAGTTATTACGACATTTGGAAAGTCCCGTTGATTTTGGTGCCAA AACATACTCCATTGACGTCAATGGGGTGGAGACTTGGAAATCCCGTGAGTCATACCG CTATCCACGCCATTGGGTGACTGCCAAAACCGCATCACCATGGTAATAGCGATGACTA ATACGTAGATGTACTGCCAGTAGGAAAGTCCNGTAAGGTCATGTACTGGGCATAAATGC CAGCGGGCCATTTACCGTCATTGACGTCATTAGGGCGGGACTGGCATATGATCACTCTG AGTACTGCCAGTGGGCAGNTTACCGTAATACTCACCCATGG
Restriction Sites:	NotI-NotI
ACCN:	NM_001014
Insert Size:	670 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:	<ol style="list-style-type: none"> 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_001014.3 , NP_001005.1
RefSeq Size:	636 bp
RefSeq ORF:	498 bp
Locus ID:	6204
UniProt ID:	P46783
Cytogenetics:	6p21.31
Domains:	S10_plectin

Protein Pathways: Ribosome

Gene Summary: Ribosomes, the 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 a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S10E family of ribosomal proteins. It is located in the cytoplasm. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Alternate splicing results in multiple transcript variants that encode the same protein. Naturally occurring read-through transcription occurs between this locus and the neighboring locus NUDT3 (nudix (nucleoside diphosphate linked moiety X)-type motif 3).[provided by RefSeq, Feb 2011]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.