

## Product datasheet for **SC126685**

### RPS24 (NM\_001026) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPS24 (NM_001026) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS24
Synonyms:	DBA3; eS24; S24
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001026 edited CCATCATGAACGACACCGTAACTATCCGCACTAGAAAAGTTCATGACCAACCGACTACTTC AGAGGAAACAAAATGGTCATTGATGTCCTTCACCCCGGGAAGGCGACAGTGCCTAAGACAG AAATTCGGGAAAACTAGCCAAAATGTACAAGACCACACCGGATGTCATCTTTGTATTTG GATTCAGAACTCATTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCC TGGATTATGCAAAGAAAAATGAACCCAAACATAGACTTGCAAGACATGGCCTGTATGAGA AGAAAAAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAGAATGAAGAAAGTCAGGG GGACTGCAAAGGCCAATGTTGGTGTGGCAAAAAGCCGAAGGAGTAAAGGTGCTGCAATG ATGTTAGCTGTGGCCACTGTGGATTTTTCGCAAGAACATTAATAAACTAAAACTTCAA AAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001026 unedited CAGATTTTGTATACGACNACTATAGCGGCACGCGAATTCGCACGAGGCCATCATGAACG ACACCGTAACTATCCGCACTATAAAGTTCATGACCAACCGACTACTTCAGAGGAAACAAA TGGTCATTGATGTCTTCACCCCGGAAGGCGACAGTGCCTAAGACAGAAATTCGGGAAA AACTAGCCAAAATGTACAAGACCACCCGGATGCATCTTTGATTTGGATTTCAGAACTC ATTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCTGGATTATGCAA AGAAAAATGAACCCAAACATATACTTGAAGACATGGCCTGTATGATAAGAAAAAGACCT CAAGAAAAGCAACGAAAGGAACGCAAGATCAGAATGAAGAAAAGTCAGGGGGACTGCAAAGG CCAATGTTGGTGTGGCAAAAAGCCGAAAGAGTAAAGGTGCTGCAATGATGTTAGCTGTG GCCACTGTGGATTTTCGCAAGAACATTAATAAACTAAAACTTCAAAAAAAAAAACTC TAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGAC CCCTCCCCAGTGCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTC CTAATAAAATTAAGTTGCATCATNTGTCTGACTAGGTGTCCTTCTATATATTATGGAGT GGAGGGGGGTGTATAGGATCAAGGGCATGTGGGAATACACCTGTAAAGCCTGCGNGTCATT GGGATCATCTGGATGCAGTGCACAATCTGGCTACTGCATNCTCGCTCTGGGTGAGCGATN CCCTGCCTACCTCCCGAGTGTGGGATTCCAGCTGCTGACAGCTCACTATTCTNTGTTTATG TAAGACGGGTTTACATATGGCAGCTGTCTCACTCTATTAGGATCACCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001026
<b>Insert Size:</b>	500 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001026.3.
<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><a href="#">NM_001026.3</a></u> , <u><a href="#">NP_001017.1</a></u>
<b>RefSeq Size:</b>	593 bp
<b>RefSeq ORF:</b>	402 bp
<b>Locus ID:</b>	6229
<b>UniProt ID:</b>	<u><a href="#">P62847</a></u>
<b>Cytogenetics:</b>	10q22.3

**Domains:** Ribosomal\_S24e

**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 S24E family of ribosomal proteins. It is located in the cytoplasm. Multiple transcript variants encoding different isoforms have been found for this gene. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Mutations in this gene result in Diamond-Blackfan anemia. [provided by RefSeq, Nov 2008]  
Transcript Variant: This variant (c) uses an alternate splice pattern in the 3' coding region, compared to variant d. The resulting protein (isoform c) has a shorter and distinct C-terminus, compared to isoform d.