

## Product datasheet for **SC101869**

### **RPS24 (NM\_033022) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPS24 (NM_033022) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS24
Synonyms:	DBA3; eS24; S24
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101869 sequence for NM_033022 edited (data generated by NextGen Sequencing) ATGAACGACACCGTAACATCCGCACTAGAAAGTTCATGACCAACCGACTACTTCAGAGG AAACAAATGGTCATTGATGTCCTTCACCCCGGAAGGCGACAGTGCCTAAGACAGAAATT CGGGAAAACTAGCCAAAATGTACAAGACCACCCGGATGTCATCTTTGTATTTGGATTC AGAACTCATTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCTGGAT TATGCAAAGAAAAATGAACCCAAACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAA AAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGGACT GCAAAGGCCAATGTTGGTGTGGCAAAAAGTGA

Clone variation with respect to NM\_033022.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_033022 unedited  GGAAGCGTTTCATTATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGCCTC  GTGCCGAATTCGGCAGGAGGATAGATCGCCATCATGAACGACACCGTAACTATCCGCACT  AGAAAGTTCATGACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCCTTCAC  CCCGGGAAGGCGACAGTGCCTAAGACAGAAATTCGGGAAAACTAGCCAAATGTACAAG  ACCACACCGGATGTCATCTTTGTATTTGGATTCCAGAACTATTTGGTGGTGCAAGACA  ACTGGCTTTGGCATGATTTATGATTCCTGATTATGCAAGAAAAATGAACCCAAACAT  AGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAAAGGAA  CGCAAGAACAGAATGAAGAAAGTCAGGGGACTGCAAAGGCCAATGTTGGTGCTGGCAAA  AAGTGAGCTGGAGATTGGATCACAGCCGAGGAGTAAAGGTGCTGCAATGATGTTAGCTG  TGGCCACTGTGGATTTTTCGCAAGAACATTAATAAACTAAAACTCAAAAAAAAAAAAA  AAAACTCGACTAGATTGCGGCCGCGTCCATAGCTGTTTCTGAACAGATCCCGGGTG  GCATCCCTGTGACCCCTCCCGAGTGCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCC  CACCAGCCTTGCTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGCTCTTCTA  TAATATTATGGGTGGGGGGGGTGGGGATATGGAACAAGGGGCAATTTGGGAAGAACAC  CTCGTAGGGCCTGGCGGGTCTTATGGGAACCAACCTTGAGTGCAGTTGGCACCCT  CTTGT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_033022 unedited  GCGGCCGAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTGAAGTTTTAGTTTATTAAT  GTTCTTGCGAAAAATCCACAGTGGCCACAGCTAACATCATTGCAGCACCTTTACTCCTTC  GGCTGTGATCCAATCTCCAGCTCACTTTTTGCCAGCACCAACATTGGCCTTTCAGTCCC  CCTGACTTTCTTCACTTCTGTTCTTGCCTTCTCGTTGCTTTCTTGAGGTCTTTTTCTT  CTCATACAGGCCATGCTTGCAAGTCTATGTTTGGTTCAATTTTCTTTCGATAATCCAG  GGAATCATAAATCATGCCAAAGCCAGTTGTCTTGCCACCACCAAAATGAGTTCTGAATCC  AAATACAAAGATGACATCCGGTGTGGTCTTGATACATTTTGGCTAGTTTTCCCGAATTTT  TGTCTTAGGCACTGTGCGCTTCCCGGGTGAAGGACATCAATGACCATTGTTTCTCTG  AAGTAGTCGGTTGGTCACTGAACTTTCTAGTGCGGATAGTTACGGTGTGTTTATGATGGC  GATCTATCCTCGTGCCGAATTCGGCAGGAGGCTCGTGCCGAATTCGCGGCCGCCCTATAG  TGAGTCGATTACAAAATCTGACGGTTCACTAAACGAGCTCTGTTATATAGACCTNCC  ACCGTACACGCCTACCGNNCATTTGCGTCAACGGGGCGGGTTTATACGACATTTTGGAA  AGTCCCNGTGATTTTGGTGCCAAAACAACTCCATTGACGTCAATGGGGTGGAGACTGG  NAAATCCCGTGAGTCAAACGCTATCCACGCCATGGTGTACTGCCAAACCGCATCACAT  GGTATAGCGAGACTATACGTANATGTCTGCCAGTAGGAAGTCCGTAAGTCTGGACTGGCA  TAAGCCAGCGGCCTTTACGTCTTGACTCATAGGGGCGGACTG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_033022
<b>Insert Size:</b>	550 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>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>	<a href="#">NM_033022.2</a> , <a href="#">NP_148982.1</a>
<b>RefSeq Size:</b>	615 bp
<b>RefSeq ORF:</b>	393 bp
<b>Locus ID:</b>	6229
<b>UniProt ID:</b>	<a href="#">P62847</a>
<b>Cytogenetics:</b>	10q22.3
<b>Domains:</b>	Ribosomal_S24e
<b>Protein Pathways:</b>	Ribosome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (a) uses an alternate splice pattern in the 3' coding region, compared to variant d. The resulting protein (isoform a) has a shorter and distinct C-terminus, compared to isoform d.</p>