

Product datasheet for SC101669

MRPS27 (NM_015084) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS27 (NM_015084) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS27
Synonyms:	MRP-S27; S27mt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101669 sequence for NM_015084 edited (data generated by NextGen Sequencing)

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ATGGCTGCCTCCATAGTGCGGCGGGGATGCTCCTGGCGGGCAAGTGGTTCTTCTCCTCAG
CTCTCTCCTGCAGGTAAGATACCTGCTTTCTTCTCAGCCTATGTAGACAGCCACAATGG
GAAGCAAGAGAAAAAGAACATTACTGTCTTGCTGATCTTGCATCTTTAATGGATAAAACA
TTTGAGAGAAAGTTGCCTGTTAGTTCTTTAACAAATATCACGGCTTATAGACAACATTTCC
TCTCGGGAAGAGATAGATCATGCAGAGTATTACCTTTACAAGTTTCGACACAGCCCAAC
TGCTGGTACCTGAGAACTGGACTATCCACACCTGGATTAGGCAGTGTCTAAAATATGAT
GCACAAGACAAAGCCCTATATACCCTTGTAAATAAGGTTCAATATGGAATTTTTCCAGAT
AACTTTACATTCAATTTACTGATGGATTCTTTCATAAAGAAAGAAAATTACAAGATGCT
TTATCTGTGGTTTTTGGGTCATGATGCAAGAAGCCTTTGAAGTGCCTTCCACCCAACTT
CTCTCCCTCTATGTTTTATTTTCATTGCCTGGCAAAGAAGACAGACTTCAGTTGGGAAGAG
GAGAGGAACTTTGGTGCATCCCTTTTGCTTCCAGGCCTAAAACAAAAGAACTCAGTGGGT
TTCAGTTCCCAGTTGTATGGCTATGCACCTTCTTGGGAAGGTGGAGTTGCAGCAAGGGCTA
CGGGCTGTGTACCACAACATGCCTCTGATATGGAACCAGGCTACCTTGACAGAGCCCTT
CAAGTGATGGAGAAAGTGGCTGCCTCCCCAGAAGACATAAAGCTGTGTAGAGAAGCGCTC
GATGTGCTGGGTGCAGTGTGAAGGCTCTGACTTCAGCTGATGGGGCTTCAGAGGAGCAG
TCCCAAAATGATGAAGACAACCAGGGGTGAGAAAACTGGTGGAGCAGTTAGACATCGAG
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CTTCAAGCTCTGGCAAATGAGTCAGAAGGTCTTTTAAAGTCTGACCACCCAGCTTGTC
AAGGAAAACTCTCCACCTGTGAAGCAGAGGACATCGCCACCTATGAGCAGAATCTGCAG
CAGTGGCATCTAGACCTTGTACAGTTGATCCAGAGAGAACAGCAACAGAGGGAGCAAGCG
AAGCAGGAGTACCAGGCTCAGAAAGCAGCAAAGGCATCTGCCTAA

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Clone variation with respect to NM_015084.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_015084 unedited CGCACGAGGCACTCGTGCCCGAAATCGGCACGAGGCCAAGATGGCTGCCTCCATAGTGCG GCGCGGGATGCTCCTGGCGCGGCAAGTGGTTCTTCTCAGCTCTCTCCTGCAGGTAAG ATCCTGCTTTCTCAGCCTATGTAGACAGCCACAAATGGGAAGCAAGAGAAAAAGACATT ACTGTCTTGCTGATCTTGCATCTTAAATGGATAAAACATTTGAGAGAAAGTTGCCTGTTA GTTCTTTAAACAATATCACGGCTTATAGACAACATTTCTCCTCGGGAAGAGATAGATTCAT GCAGAGTATTACCTTTACAAGTTTCGACACAGCCCAACTGCTGGTACCTGAGAAACTGG ACTATCCACACCTGGATTAGGCAGTGTCTAAAATATGATGCACAAGACAAAGCCCTATAT ACCCTTGTAATAAGGTTCAATATGGAATTTTTCCAGATAAACTTTACATTCAATTTACTG ATGGATTCTTTTATAAAGAAAGAAAATTACAAAGATGCTTTATCTGTGGTTTTTGAGGTC ATGATGCAAGAAGCCTTTGAAGTGCCTTCCACCCAACCTCTCTCCCTCTATGTTTTATTT CATTGCCTGGCAAAGAAGACAGACTTCAGTTGGGAAGAGGAGAGGAACCTTGGTGCATCC CTTTTGTCTCCAGGCCTAAAACAAAAGAACTCAGTGGGTTTCAGTTCCCAGTTGTATGGC TATGCACTTCTTGGGAAGGNTGNAGTTGCAGCAAGGGCTACNGGCTGTGTACCACAACAT GCCTCTGATATGAAAAACCAGCTACCTTGACAGAGCCTTTCAGTGATGGAGAAAGTGGCT GCCTCCCGAGAAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_015084 unedited GCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGATCCCGGGACATTTATTT CAGAGGCTTTTGTAGAGAAGAGCACAATCTTGAATAAAATTACACCACTGTACTTAAGGGC AACACTACATAGTAAGCAAAATCTGCTCTGAACCTTTTACAGAAGAGACACTTCAGAAA GGAATTTTACATCTCCTGACAGTTTTACAACATTCATACCTCTGATGCATTCAGCCCC AACCCATCTCTCATTTTTCTAACTTCTTTAACAGAAATGTGTGTTACAAGTTGTGTGTGC ATGCACATGTGCCTCTGTGTGTACACAAAAGGCTCATTTTACCTACTTGATAAATGAGCT GAGACGATGTTTTGGGAAAAAAAAAATTGGAAAAAAAAATGTTACCCCAACACGATGGAGA AGCCAATCCAAAAAGCTTCATGCTAGAGCTAGCTTTCTCCTCAGAACTTACATCCTAA AAACATCCCTATGGGTGCCTAAAAATGGAAATCCAGTGAGTTCATGGCCTTGAGTTCACT CCTGTCTGAATTTCTCCAGTGCAAGTCCATAAGGGCGAGATGTGGCAAAAAGGAGAAT GTGGGAATGTGTGAGTATCCACAGCCAGCTCACAGTGCAGCTTGCACTCAGAAAGGAGA CTCAGGGACACAGGTCTCAGGATGCACAGTTTACCCTTGGCCTCATGTCCCTGGGCTGGG GAGAGGAGACCATTCAAAGCCTGTGCTTGGCCGGGTGTGGGGGCTCACCTTATATCCCA ACCCCTGGGAAGCTGAGGCGGCCAAACACCTGAGTCAGGAGTTGAGACCCTGCCAAC ATGGGAAACCCCTCTTTCTAAATGCAAAATTAAGTGTGGTGGGTGCCCTGTATCCC CCTCTAAGGAGCCAGCCGAAAAATGTTTGAATCGGAACCGAGTTGCATGGCCAAATTGC CCCTGCCTCCCCTGGGAAAAAGAAATCGTTCAAACCAACCAAAACAAC</p>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_015084
Insert Size:	2710 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_015084.1](#), [NP_055899.1](#)

RefSeq Size: 2631 bp

RefSeq ORF: 1245 bp

Locus ID: 23107

UniProt ID: [Q92552](#)

Cytogenetics: 5q13.2

Gene Summary: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that may be a functional partner of the death associated protein 3 (DAP3). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2013]

Transcript Variant: This variant (2) lacks an exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter compared to isoform 1.