

## Product datasheet for **SC324057**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_015084.1  
 CTCCAAGATGGCTGCCTCCATAGTGCGGCGCGGGATGCTCCTGGCGCGGCAAGTGGTTCT  
 TCCTCAGCTCTCTCCTGCAGGTAAGAAATACCTGCTTTCTTCAGCCTATGTAGACAGCCA  
 CAAATGGGAAGCAAGAGAAAAAGAACATTACTGTCTTGTGATCTTGCATCTTTAATGGA  
 TAAAACATTTGAGAGAAAGTTGCCTGTTAGTCTTTAAACAATATCACGGCTTATAGACAA  
 CATTTCCTCTCGGAAGAGATAGATCATGCAGAGTATTACCTTTACAAGTTTCGACACAG  
 CCCCAACTGCTGGTACCTGAGAAACTGGACTATCCACACCTGGATTAGGCAGTGTCTAAA  
 ATATGATGCACAAGACAAAGCCCTATATACCCTTGTAATAAGGTTCAATATGGAATTTT  
 TCCAGATAAATTTACATTCAATTTACTGATGGATTCTTTCATAAAAGAAAATTACAA  
 AGATGCTTTATCTGTGGTTTTGAGGTCATGATGCAAGAAGCCTTTGAAGTGCCTTCCAC  
 CCAACTCTCTCCCTCTATGTTTTATTTCATTGCCTGGCAAAGAAGACAGACTTCAGTTG  
 GGAAGAGGAGAGGAACTTTGGTGCATCCCTTTTGCTTCCAGGCCTAAAACAAAAGAACTC  
 AGTGGGTTTCAGTCCCAGTTGTATGGCTATGCACTTCTTGGGAAGGTGGAGTTGCAGCA  
 AGGGCTACGGGCTGTGTACCACAACATGCCTCTGATATGGAACCAGGCTACCTTGACAG  
 AGCCCTTCAAGTGTGGAGAAAGTGGCTGCCTCCCAGAAGACATAAAGCTGTGTAGAGA  
 AGCGCTCGATGTCTGGGTGCAAGTGTGAAGGCTCTGACTTCAGCTGATGGGGCTTCAGA  
 GGAGCAGTCCCAAAATGATGAAGACAACAGGGGTGAGAAAACTGGTGGAGCAGTTAGA  
 CATCGAGGAAACAGAGCAGTCCAAGCTTCTCAATACCTGGAACGATTTAAGGCCTTACA  
 TTCTAAGCTTCAAGCTCTGGGCAAAATTGAGTCAGAAGGTCTTTTAAGTCTGACCACCCA  
 GCTTGTCAAGGAAAACTCTCCACTGTGAAGCAGAGGACATCGCCACCTATGAGCAGAA  
 TCTGCAGCAGTGGCATCTAGACCTTGTACAGTTGATCCAGAGAGAACAGCAACAGAGGGA  
 GCAAGCGAAGCAGGAGTACCAGGCTCAGAAAGCAGCAAAGGCATCTGCCTAATAGGGTCC  
 CCCAGGCCCCACCTGTCTCACAAGAACTTCACTCAACCCCGTCCAGGACTCAGCAGTG  
 GCCTGGACAACAGCCTCAGCTTCTCTACCCATCTTCTTTTCTTAAAGCAGGCTATGTGC  
 CCTACATGGCAAGGCACCATGACTGCCATCGAGATGCCAAGAAGGGCTATGGAATATG  
 CAGGTGGCTAGTGGTCCAGTGAAGTACCAGCTGAATACCTTAAGGAGGACTCTTGAGG  
 CTCATAATGGAGTTCTGGGGCACAGGATTAGTTATGAGCATTAAAGTTCCTAAGACCC  
 AGTGACAGTACTGGGAGAAACCAAGGCTGAAGAGTCAAGTGAAGCACAGGCTTTTGTTT  
 TTTGTTGTTTTGTTTTTGGAGACAGAGTCTCATTCTGTCACCCAGGCTGGAGTGCAGTG  
 GCGCAATCTTGGTCACTGCAACCTCCGACTCCCAGGTTCAAGCAATTCTCTGCCTCGG  
 CCTCCTTTAGTAGGTGGGATTACAGGTGCATACCACCACCTTTCTAATTTTTGCATTT  
 TTAGTAGAGATGGGGTTTACCATGTTGGTCAAGGCTGGTCTCAACCTCCTGACCTCAAGT  
 GATCTGCCCGCTCAGCCTCCCAAAGTGTGGGATGATAGGCGTGAGCCACCACACCCGG  
 CCAAGCACAGGCTTTGAATGGTCTCCCTCTCCCAGCCAGGTACATGAGGCCAAGGTG  
 AACTGTGCATCCTGAGACCTTGTGTCCCTGAGTCTCCTTTCTGAGTGCAAGCTGCACTGT  
 GAGCTGGCTGTGGGATACTCACACATCCACATTTCTCCTTTCTGCCACATCTCGCCCTT  
 CTGGACCTGCACTGGGAGAAATTCAGGACAGGAGTGAACCAAGGCCATGAACACTACTGG  
 ATTTCCATTTTTAGGCACCCATAGGGATGTTTTAGGATGTAAGTTTCTGAGGAGAAAGC  
 TAGCTCTAGCATGAAGCTTTTTGGATTGGCTTCTCCATCGTGTGGGGTAACATTTTTT  
 TTCCAATTTTTTTTTCCAAAACATCGTCTCAGCTCATTATCAAGTAGGTAATAATGAG  
 CCTTTTGTGTACACACAGAGGCACATGTGCACGCACACACAACCTTGTGAACACACATTTT  
 TGTTAAAGAAGTTAGAAAATGAGAGATGGGTTGGGGCTTGAAGTGCATCAGAGGTATGAA  
 TGTTGTAAAACGTGACAGGAGATGAAAATTCCTTTCTGAAGTGTCTCTTGTGAAAGGG  
 TTCAGAGCAGATTTTGTACTATGTAGTGTGCCCTTAAGTACAGTGGTGAATTTTAT  
 TCAAGATTGTCTCTTCTATCAAAGCCTCTGAAAATAAATGTTCCGGGATCAAAAAAAA  
 AA  
 AAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_015084

<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>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_015084.1</a></u> , <u><a href="#">NP_055899.1</a></u>
<b>RefSeq Size:</b>	2631 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	23107
<b>UniProt ID:</b>	<u><a href="#">Q92552</a></u>
<b>Cytogenetics:</b>	5q13.2
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>