

## Product datasheet for **SC107657**

### MRPS15 (NM\_031280) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS15 (NM_031280) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS15
Synonyms:	DC37; MPR-S15; RPMS15; S15mt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107657 sequence for NM_031280 edited (data generated by NextGen Sequencing)

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ATGCTGAGGGTCGCGTGGAGACGCTGAGTTTGATTTCGGACCCGGGCAGTTACCCAGGTC
CTAGTACCCGGGCTGCCGGGCGGTGGGAGCGCCAAGTTTCCTTTCAACCAAGTGGGCCTG
CAGCCTCGAAGTCTCCTCCTCCAGGCCGCGCGGATATGTCGTCCGAAACCAGCCCAG
TCTAGGCTGGATGATGACCCACCTCCTTCTACGCTGCTCAAAGACTACCAGAATGTCCCT
GGAATTGAGAAGGTTGATGATGTCGTGAAAAGACTCTTGTCTTTGGAAATGGCCAACAAG
AAGGAGATGCTAAAAATCAAGCAAGAACAGTTTATGAAGAAGATTGTTGCAAACCCAGAG
GACACCAGATCCCTGGAGGCTCGAATTATTGCCTTGTCTGTCAAGATCCGCAGTTATGAA
GAACACTTGGAGAAACATCGAAAGGACAAAGCCCACAAACGCTATCTGCTAATGAGCATT
GACCAGAGGAAAAAGATGCTCAAAAACCTCCGTAACACCAACTATGATGTCTTTGAGAAG
ATATGCTGGGGGCTGGGAATTGAGTACACCTTCCCCCTCTGTATTACCGAAGAGCCAC
CGCCGATTCTGTGACCAAGAAGGCTCTGTGCATTCCGGTTTTCCAGGAGACTCAAAAGCTG
AAGAAGCGAAGAAGAGCCTTAAAGGCTGCAGCAGCAGCCAAAAACAAGCAAAGCGGAGG
AACCCAGACAGCCCTGCCAAAGCCATACCAAGACACTCAAAGACAGCCAATAA
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Clone variation with respect to NM\_031280.3  
207 c=>t



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_031280 unedited            AGAATTTTGTAAACGACTCACTATAGGGGCGGCCGCAATTCGCACGAGGCGGGCCCA            TGTAACCCGGTCCGTGCCGCAAAGCGAACGGCGGCCGCGCGGGCCCCGCGGGGTTA            GAGGTCACCATGCTGAGGGTCGCGTGGAGGACGCTGAGTTTGATTCGGACCCGGGCAGTT            ACCCAGGTCTAGTACCCGGGCTGCCGGGCGGTGGGAGCGCAAGTTTCCTTTCAACCAG            TGGGGCTGCAGCCTCGAAGTCTCTCTCCAGGCCGCGCGGATATGTCGTCGGAAA            CCAGCCCAGTCTAGGCTGGATGATGACCCACCTCTTCTACGCTGCTCAAAGACTACCAG            AATGTCCCTGGAATTGAGAAGGTTGATGATGTCGTGAAAAGACTCTTGTCTTTGAAATG            GCCAACAAAGAAGGAGATGCTAAAAATCAAGCAAGAACAGTTTATGAAGAAGATTGTTGCA            AACCCAGAGGACACCAGATCCCTGGAGGCTCGAATTATTGCCTTGTCTGTCAAGATCCGC            AGTTATGAAGAACAACCTGGAGAAACATCGAAAGGACAAAGCCACAAACGCTATCTGCTA            ATGAGCATTGACCAGAGGAAAAAGATGCTCAAAAACCTCCGTAACACCAACTATGATGTC            TTTGAGAAGATATGCTGGGGCTGGGAATTGAGTACACCTTCCCCCTCTGTATTACCGA            AGAGCCCACCGCGATTCTGTACCAAGAAGGCTCTGTGCATTGGGTTTTCCAGGAGACT            CANAAGCTGAAGAAGCGAAAAAGAGCCTTANAGCTGCAGCAGCAGCCAAAAACAAGCA            AGCGGNAGAACCNAGACAGCCTGCCAAAGCCATACANAGACACTCAAGACAGNNCATA            NATTTCTGTCATCATTANAAAAAACCTAGATTGCGGNCGCGTCATAGCTTGTCTTCT            GACAGATCCCGNNTGGCATCNCTGTGACCNCTCCC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_031280 unedited            NNNNNNNNGGGTTAAACTATGGNACCGCGCCGCATNCTAGNATTTTTTTTTTAAAGATT            GAACAGAAATTTATTGGCTGTCTTTGAGTGTCTTTGGTATGGCTTTGGCAGGGCTGTCTGG            GTTCTCCGCTTTGCTTGTTTTTGGGCTGCTGCTGCAGCCTTTAAGGCTTCTTTCGCTT            CTTCAGCTTTTGTAGTCTCTGAAAACCCGAATGCACAGAGCCTTCTTGGTCACGAATCG            GCGGTGGGCTCTTCGGTAATACAGAGGGGGGAAGGTGACTCAATTTCCAGCCCCAGCA            TATCTTCTCAAAGACATCATAGTTGGTGTACGGAGGTTTTGAGCATCTTTTCTCTG            GTCAATGCTCATTAGCAGATAGCGTTTGTGGGCTTTGTCTTTTCGATGTTTCTCAAAGTG            TTCTTCATAACTGCGGATCTTGACAGACAAGGCAATAATTCGAGCCTCCAGGGATCTGGT            GTCCTCTGGGTTTGCAACAATCTTCTCATAAACTGTTCTTGCTTGATTTTTAGCATCTC            CTTCTTGTGGCCATTTCAAAGACAAGAGTCTTTTACGACATCATCAACCTTCTCAAT            TCCAGGGACATTCTGGTAGTCTTTGAGCAGCGTAGAAGGAGGTGGGTATCATCCAGCCT            AGACTGGGCTGGTTTTCCGACGACATATCCGCGCGCGCCCTGGAGGAGGAGACTTCGAGG            CTGCAGGCCCCACTGGTTGAAAGGAAACTTGGCGCTCCCACCGCCGGCAGCCCGGGTAC            TAGGACCTGNGTAACTGCCCGGGTCCGAATCNACTCAGCGTCTCCACGCGACCTCAGC            ATGGTGACCTCTACCCCCGCGA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_031280
<b>Insert Size:</b>	900 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_031280.2</a> , <a href="#">NP_112570.2</a>
<b>RefSeq Size:</b>	891 bp
<b>RefSeq ORF:</b>	774 bp
<b>Locus ID:</b>	64960
<b>UniProt ID:</b>	<a href="#">P82914</a>
<b>Cytogenetics:</b>	1p34.3
<b>Domains:</b>	Ribosomal_S15
<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 belongs to the ribosomal protein S15P family. The encoded protein is more than two times the size of its E. coli counterpart, with the 12S rRNA binding sites conserved. Between human and mouse, the encoded protein is the least conserved among small subunit ribosomal proteins. Pseudogenes corresponding to this gene are found on chromosomes 15q and 19q. [provided by RefSeq, Jul 2008]</p>