

Product datasheet for **SC108433**

MRPS25 (NM_022497) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS25 (NM_022497) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS25
Synonyms:	COXPD50; MRP-S25; RPMS25
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108433 sequence for NM_022497 edited (data generated by NextGen Sequencing)

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ATGCCCATGAAGGGCCGCTTCCCCATCCGCCGACCCTGCAATATCTGAGCCAGGGGAAC
GTGGTGTTC AAGGACTCCGTGAAGGTCATGACAGTGAATTACAACACGCATGGGGAGCTG
GGCGAGGGCGCCAGGAAGTTTGTGTTTTTCAACATACCTCAGATTCAATACAAAAACCCT
TGGGTGCAGATCATGATGTTAAGAACATGACGCCGTACCCTTCCTGCGATTCTACTTA
GATTCTGGGGAGCAGGTCCTGGTGGATGTGGAGACCAAGAGCAATAAGGAGATCATGGAG
CACATCAGAAAAATCTTGGGAAGAATGAGGAAACCCTCAGGGAAGAGGAGGAGAGAAA
AAGCAGCTTTCACCCAGCCAACCTTCGGCCCTCGAAAGTACTGCCTGCGGGAGTGCATC
TGTGAAGTGGAAGGGCAGGTGCCCTGCCCCAGCCTGGTGCATTACCAAGGAGATGAGG
GGGAAGTACAAAGCCGCTCTGAAAGCCGATGCCCCAGGACTAA
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Clone variation with respect to NM_022497.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_022497 unedited TATAGGCGGCCCGCAATTTCGCACGAGGCTGGCTCTGGGGAGAAGCCGCGTGAGATCCGC GCGGGTGTAGCTAGTCTTTCTCGTCGCTGCTCGGCTCGCGCCCGTGGGGTCCGCCCC GCCACCGTTGCCGCCATGCCATGAAGGGCCGCTTCCCATCCGCGCACCCTGCAATAT CTGAGCCAGGGGAACGTGGTGTTCAGGACTCCGTGAAGGTCATGACAGTGAATTACAAC ACGCATGGGAGCTGGGCGAGGGCGCCAGGAAGTTTGTGTTTTTCAACATACCTCAGATT CAATACAAAAACCTTGGGTGCAGATCATGATGTTTAAGAACATGACGCCGTACCCTTC CTGCGATTCTACTTAGATTCTGGGAGCAGGTCCTGGTGGATGTGGAGACCAAGAGNCAT AAGGAGATCATGGAGCACATCAGAAAAATCTTGGGAAGAAATGAGGAAACCTCAGGNA GAGGANGAGGAGAANAAGCAGCTTCTCACCCAGCCAACCTCGCCCTCGAAAGTACTGNC TGCGNAGTGCATCTGTGAGNNGGAAGGGGCGAGTCCCTGCCAGCCTGGTGCCTTAC CCAGGAAATGAGGGGGAATACAAAACCCGTCTGAAAGCCGATGCCAGACTAAGCCAN GTACTGNGGCTGGGGGAAATGGTTCCTACCTGGGAAATGGAAAGGGGATTCTTGGCC CGAACCCTCCCGTTTTTGCCTGGAACTGGGAAACTTTTGTAAAGGCTTTCAACC TGGTAAAGGGTGGGAAAGAGGGGGGNAACCAACCCCAAAAAAAAAACCCCGCTGGG GAAAAAAAAACCTTCTATAACCTTTACGGTTTGGGTTTAAAAAAGGGCCTGAAAAAGA GTTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_022497 unedited NTTCTCTGGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTGAAAACTGTTAAAATTAAGGTTGGNGAATAACATTTGGGAAGTAGTAGA TTTGCATATAAAAAATGGCTTTTTCTTTAGGAAAAGTATAATCCAATTTATTTAATG CCAATAGCATTTCATGGGACTCAAATGCTGGCTGCCACACACAACTCAAGGGCTTGA ATTTTNTCTACAGTTCTCTCTGTCTACGATTATCTTGTAAACCAGGGTCAACTAGTT TTATAACTGAAAAGCTGCACATTTTTACAGTACAAGCCGAAGTTTTTACCTGTAGTTT GACTTCTCTGTTAAAATGTAAGTGCATTACCAGCCCTTTTAAAGGCATCTATCTACAA GGAAAAATTTGGGGGTTAAATTTCTTGGGACCGTTTCTGTAACCTTTGCCCTTACAATA TAAAAAATATTGGTTTTGCCATTACATTTAATGCCAGGTTTAAACCTGTTGAAAGCTG CAGCTTTATACAGCTTTCTTCCCTGTGAAATCACTTTGTTTATGTGATGGCATTAAA AAATAGCATGTTCTTTTTAACTGAATTTATATCTAATCAATGTCTTCAGTCTTGAAGA AGAATTTGCATTGTTGCTTTGTATATAGAGATTGACAGCGCATGAATTACCTTTATGCA TTTTATTAATGCTGTTTCAATGTGCCATTATTGTTGGGCCTAATCCACCACCCTAATG AGGTTTATCTATTAAAGGGGAATTAAAGACTAACATGCCTCCCTGCCCTTAAATTTTT CACATGAAAAGAAGAAAGGCCCTGGCCCCAAACCAATGCACGGCTTTTTTTGGGTTATG GAACAAGAAGCATCCTGGGGGGCCCGCCTTAAACAGTCTTGGCGCCCCACCTTAGCCTT AGCGGCCAGAGGGAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_022497
Insert Size:	5270 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_022497.3](#), [NP_071942.1](#)

RefSeq Size: 4574 bp

RefSeq ORF: 522 bp

Locus ID: 64432

UniProt ID: [P82663](#)

Cytogenetics: 3p25.1

Domains: L51_S25_CI-B8

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. A pseudogene corresponding to this gene is found on chromosome 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]
Transcript Variant: This variant (1) represents the longest transcript and encodes the supported protein.