

Product datasheet for **SC125887**

MRPS17 (NM_015969) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS17 (NM_015969) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS17
Synonyms:	HSPC011; MRP-S17; RPMS17; S17mt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_015969 edited

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GTCTTGGCGGAGGTGACCAAAGCCACGTAATGTCCGTAGTTCGCTCATCCGTCCATGCCA
GATGGATTGTGGGAAGGTGATTGGGACAAAAATGCAAAGACTGCTAAAGTGAGAGTGA
CCAGGCTTGTCTGGATCCCTATTTATTAAGTATTTTAATAAGCGGAAAACCTACTTTG
CTCACGATGCCCTTCAGCAGTGACAGTTGGGGATATTGTGCTTCTCAGAGCTTTACCTG
TTCCACGAGCAAAGCATGTGAAACATGAACTGGCTGAGATCGTTTTCAAAGTTGGAAAAG
TCATAGATCCAGTGACAGGAAAGCCCTGTGCTGGAACCTACCTGGAGAGTCCGTTGA
GTTTCGGAACCAACCCAGCTAAGCAAAAATCTGGAAGAACTCAATATCTCTTCAGCACAGT
GAAGCGGGAGTGAAGAAGGATCTAAAGGGAAAAACTGACATTTTATGTTATGGAAAAA
GAAATTTTCTAAGTTTCATCAGAACTGTGTCCAGTTTCTGTGGTGTATGAAATA
GCTAAAGCAAAATGAAGTAAAGGCATACTATGGTTTTTCACAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_015969 unedited <pre> GGGGTTCGGTACGCTGGNANAGCCATCCAGCTGTTTTGTACCTCCATANAAACACCGG GNACCGATCCAGCCTCCGGACTCTAGCCTAGGCCGCGGGACGGATAACAATTTACACAG GAAACAGCTATGACCATTAGGCCTATTTAGGTGACACTATAGAACAAGTTTGTACAAAAA AGCAGGCTGGTACCGTCCGGAATTCCTGGGATATCGTCGACCCACGCGTCCGCCACGC GTCCGGTCTTGGCGGAGGTGACCAAAGCCACGTAATGTCCGTAGTTCGCTCATCCGTCCA TGCCAGATGGATTGTGGGAAGGTGATTGGGACAAAAATGCAAAAGACTGCTAAAGTGAG AGTGACCAGGCTTGTCTGGATCCCTATTATTAAAGTATTTAATAAGCGGAAACCTA CTTTGCTCACGATGCCCTTCAGCAGTGACAGTTGGGGATATTGTGCTTCTCAGAGCTTT ACCTGTTCCACGAGCAAAGCATGTGAAACATGAACTGGCTGAGATCGTTTTCAAAGTTGG AAAAGTCATAGATCCAGTGACAGGAAAGCCCTGTGCTGGAACCTACCTACCTGGAGAGTCC GTTGAGTTCGAAACCACCCAGCTAAGCAAAATCTGGAAGAACTCAATATTCTCTTCAC CACAGTGAAACGTGAGTGAAGAAGGATCTTAAGGAAAAAAGTACTTTTTATGTTATGG GAAAAAAATTTTTCTAATTTTATAACAAACTGTGGTCCAGTTTCTCTGGGGGTGTTTAT GAGATAGCCTCAGAGCAAATGGCGTAAAGGGCCATCCTAGGGTTTTTCCCGGGGAGAG CGCGGTGGTCACGCGAAAAAGGGGATAAGAAAAAAAAGCGGGGGGCCGCTTTAAAGT ATCCCTCGGGGGGGCCN </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_015969
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:	<u>NM_015969.2</u> , <u>NP_057053.1</u>
RefSeq Size:	600 bp
RefSeq ORF:	393 bp
Locus ID:	51373
UniProt ID:	<u>Q9Y2R5</u>
Cytogenetics:	7p11.2
Protein Families:	Druggable Genome

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 belongs to the ribosomal protein S17P family. The encoded protein is moderately conserved between human mitochondrial and prokaryotic ribosomal proteins. Pseudogenes corresponding to this gene are found on chromosomes 1p, 3p, 6q, 14p, 18q, and Xq. [provided by RefSeq, Jul 2008]