

Product datasheet for **SC119552**

MRPS6 (NM_032476) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS6 (NM_032476) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS6
Synonyms:	C21orf101; MRP-S6; RPMS6; S6mt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119552 sequence for NM_032476 edited (data generated by NextGen Sequencing) ATGCCCCGCTACGAGCTGGCTTTAATCCTGAAAGCCATGCAGCGCCAGAGACTGCTGCT ACTTTGAAACGTACGATAGAGGCCCTGATGGACAGAGGAGCAATAGTGAGGGACTTGAA AACCTGGGTGAACGAGCGCTTCCTTATAGGATCTCTGCCACAGTCAGCAGCACAAACAGA GGCGGGTATTTCTTGGTGGATTTTATGCACCCACCGCAGCTGTTGAAAGCATGGTGGAG CACTTGCTCGAGATATAGATGTGATTAGAGGGAATATTGTCAAACACCCTCTGACCCAG GAACTAAAAGAATGTGAAGGGATTGTCCCAGTCCCCTCGCAGAAAAATTATATTCCACA AAGAAGAGGAAGAAGTGA

Clone variation with respect to NM_032476.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_032476 unedited GGTGCACATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCCGTCCGGC GCAGCAGTTTCTAGGTCCCCTACTGTCCCGCCGTCCCGCCCTTCGCGTCCCGGGAACCG GCTGGCTCCGAGCCGCACTCGCCGATCCTCCAGGCATGCCCCGCTACGAGCTGGCTTTA ATCCTGAAAGCCATGCAGCGCCAGAGACTGCTGCTACTTTGAAACGTACGATAGAGGCC CTGATGGACAGAGGAGCAATAGTGAGGGACTTGGAAAACCTGGGTGAACGAGCGTTCCT TATAGGATCTCTGCCACAGTCAGCAGCACAACAGAGGCGGGTATTTCTTGGTGGATTTT TATGCACCCACCGCAGCTGTTGAAAGCATGGTGGAGCACTTGTCTCGAGATATAGATGTG ATTAGAGGGAATATTGTCAAACACCTCTGACCCAGGAATAAAAGAATGTGAAGGGATT GTCCCAGTCCCCTCGCAGAAAAATTATATTCCACAAAGAAGAGGAAGAAGTGAGAAGAT TCGCCAGATTTTAGCCTTATATGTAATTCCTTCACATTTGGCAGCATGGACGAGAAGGA AGAATTTGCAAGTTTGGCCTTTATATAAGCATGTGTTGCAGGTGCTGTTTGTATTTTCTA AGGTATTTTAGCCCTTGATCCCCTTTGCTTGCAGAGGTGGGAACTGCTCACTGACAG CTTCTCTGTAACCTGCAGTACCAGNGNATCGNTCTTGATTNTGNNTTCATTAGNGNCAT TTCNTTTGTCTGAGGGACTTTNCCCCTTNNACACAGTACACCATNNNTTGAAGAGCAN AAACTATATACCTCCTGGGGATGTGAGCTAGTCATTCAGCCTGGTGTACCATGTGAAAT AAAAATGAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_032476 unedited GCCGCCCGGCCACCCACACCCCTTCNNNNNNNNNNNTTGACTNTGAACCGGGCCCG CATNCTANNGATCGGTTTTTTTTTTTTTTTTTCTACAATCAAGTTTATTACTCAAAGC AAAAGTTGTCCATATAATACATTGGTCGCAATTTTTATTTCCACATGGTTACACAGGCT GAATGACTAGCTCACAATCCCAGGAGGTATTATAAGTTTTGCTCTTCAAAAAATGGTGT ACTGTTGTAAGGGGAAAAGTCCCAATGACAAAGAAATGACACTAATGAAAACAAAATCA AGAACGATCCACTGGTACTGCAGGTTACAGAGAAGCTGTCAAGTGAAGCAGTTCCCCACCTC TCGCAAGCAAAGGGGATCAAGGGCTAAAAATACCTTAGAAAAATCAAACAGCACCTGCAA CACATGCTTATATAAAGGCCAAACTTGCAAATCTTCTCTCTCGTCCATGCTGCCCAAAT GTGAAGGAATTACATATAAGGCTAAAATCTGGCGAATCTTCTCACTTCTTCTCTCTTT GNGGAATATAATTTTTCTGCGAGTGGGACTGGGACAATCCCTTCACATCTTTTAGTTCC TGGGTCAGAGGGTGTGACAATATCCCTCTAATCACATCTATATCTCGAGACAAGTGC TCCACCATGCTTTCAACAGCTGCGGTGGGTGCATAAAAAATCCACCAAGAATACCCGCT CTGTTGTGCTGACTGTGGGCAGAGATCCTATAAGGAAGCGCTCGTTACCCAGGTTTT CCAAGTCCCTCACTATTGCTCCTGTCCATAAAGGCCTTTATCGTACGTTCAAAGTAAC AGCATTCTTTGCCGCTGCATGTTTTAAGGATAAAACCCGCTCGAACCGGGCCATGCCT GGAGGACCGCAAGTGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_032476
Insert Size:	1070 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_032476.2](#), [NP_115865.1](#)

RefSeq Size: 1011 bp

RefSeq ORF: 378 bp

Locus ID: 64968

UniProt ID: [P82932](#)

Cytogenetics: 21q22.11

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 S6P family. Pseudogenes corresponding to this gene are found on chromosomes 1p and 12q. [provided by RefSeq, Jul 2008]