

Product datasheet for SC107180

MRPS5 (NM_031902) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS5 (NM_031902) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS5
Synonyms:	MRP-S5; S5mt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107180 sequence for NM_031902 edited (data generated by NextGen Sequencing)

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ATGGCGACCGGTGCGCGCTGTGGGCTGCCTCCCCGTGTGTAGCGGGACGGCAGGT
CATTTATTGGGGAGGCAGTGTTCCCTAAACACCTTACCAGCAGCTTCCATTTTGGCATGG
AAGAGTGTTCCTCGCAATGGCCATTTGTCATCACTGGGAACAGAGACACCCATCCCTAC
GCCAGCTTGAGCCGTGCACTGCAGACACAATGCTGATTTTCTTCTCCCAGTCACCTGATG
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GGCGCTTTAGCAGAGACTGGTGTGGAGCAAAAAAGGAAGGGCAAAAGAACTAAAAAG
AAGAAAAGAAAGGATCTGAACAGGGTCAAGATCATTGGTGAAGGGCGTTATGGTTTTCTA
TGGCCCGACTGAATGTCCCTCTTATGAAAAATGGAGCAGTGCAGACCATTGCCCAAAGA
AGCAAGGAAGAGCAGGAGAAGGTGGAGGCAGACATGATCCAGCAGAGAGAAGAGTGGGAC
CGAAAGAAGAAGATGAAGTTAAACGGGAGCGAGGATGGAGTGGAACTCATGGGGAGGC
ATCAGTCTTGGCCCCCTGACCCCTGGTCCCTGTGGAGAAACATATGAGGATTTTGATACC
AGGATACTTGAGGTAAGAAACGTTTTCACTATGACTGCGAAAAGAGGGAAGAAAGAAATCG
ATCCGTGTCTTGGTGGCTGTGGGAAACGGAAAAGGAGCTGCAGGTTTTTCTATTGGGAAA
GCTACTGATCGGATGGATGCTTTCAGGAAAGCAAAGAACAGAGCAGTTCACCATTTGCAT
TATATAGAACGATATGAAGACCATACAATATCCATGATATTTTCATTAAGATTTAAAGG
ACGCATATCAAGATGAAGAAACAACCCAAAGGTTACGGCCTCCGCTGCCACAGGGCCATC
ATCACCATCTGCCGGCTCATTGGCATCAAAGACATGTATGCCAAGGTCTCTGGGTCCATT
AATATGCTCAGCCTCACCCAGGGCCTCTCCGTGGGCTCTCCAGACAGGAAACCCATCAA
CAGCTGGCTGATAAGAAGGGCCTCCATGTTGTGAAAATCCGGGAGGAATGTGGCCCTCTG
CCCATTGTGTTGCGTCCCCCGGGGGCCCTTGAGGAAGGATCCAGAGCCAGAAGATGAG
GTTCCAGACGTCAAACCTGGACTGGGAAGATGTGAAGACTGCACAGGGAATGAAGCGCTCT
GTGTGGTCTAATTTGAAGAGAGCCGCCACGTAA

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Clone variation with respect to NM_031902.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_031902 unedited AATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGGTCCCTCACCCCGGCTGC GCTGCTGCGTGGACTCGGGCCTCAGGAATTCGGCTGCGGCCCAAGGCTTGCCGTTTGACG AGGAGCAGTCGCGGTAGGCGGTGGGCAAGGCTGCCCTGGGCGGAGGCCGAGGCGCGGCTC GGACTCCAGCATGGCGACCGCGGTGCGCGCTGTGGGCTGCCTCCCCGTGCTGTGTAGCGG GACGGCAGGTCATTTATTGGGGAGGCAGTGTTCCTAAACACCTTACCAGCAGCTTCCAT TTTGGCATGGAAGAGTGTCTCGGCAATGGCCATTTGTCACTCACTGGGAACCAGAGACAC CCATCCCTACGCCAGCTTGAGCCGTGCACTGCAGACACAATGCTGTATTTCTTCTCCAG TCACTGATGAGCCAGCAGTATAGACCATATAGTTTTCTTCACTAAATTGACTGCAGATGA GCTGTGAAAAGGCGCTTTANCAGAGACTGGTGTGGAGCAAAAAAGGAAGAGGCAAAAG AACTAAAAAGAAGAAAAGATAGGATCTGAACAGGGGTGAGTCACTTGGTGAAGGGCGTTA TGGTTTTCTATGGCCCGACTGAATGTCCCTTATGAAAAATGGAGCAGTGCAGACCAT TGCCANAGAAGCAGGGAAGAGCANGAGATAGTGGATGCAGACATGATCCAGCAGAGAGA AGAGTGGGACCGAAAAGAGAAGATGAAGTTAAACGGGAGCGAAGATGGAGTGAATCTCAT GGGAGGCATCAGTCTTGCCCCCTGACCCTGNTCCCCCTGTGAGAACATATGANGATT TTGAACCCAGATACTGAGGGTAGAAACGTTTCACTATGACTGCGAAAGAGGGAGAAGAA ATCCGACCGGGTCTTTGGCTGTGGGAACGAAAAGACTGCNAGTTTCTATGGGAAGCAC TGACGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_031902 unedited TCTGCACGCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGTCAACAAAT GAAAGCTATAATTATTTATTTCCAAAAAGTTTAAAGATTAACCTCCCTAAAACAAACA AAAGGCAAGTAACATCCCAAGCTGTGAGGGGCTGAGTCTCTCCTAGGTGCAGGGCAGCA CAGGAACCTGGCTGCACAAGGCCAGAGAGTTACGTGGCGGCTCTTCAAATTAGACCAC ACAGAGCGCTTCAATCCCTGTGCAGTCTTACATCTTCCCAGTCCAGTTTGACGTCTGGA ACCTCATCTTCTGGCTCTGGATCCTTCCCAAGGGCCCCGGGGGACGCAACCACAATG GGCAGAGGGCCACATTCTCCCGGATTTCCACAACATGGAGGCCCTTCTTATCAGCCAGC TGTTGATGGGTTTCTGTCTGGAGGCCACGGAAGAGGCCCTGGGTGAGGCTGAGCATA TTAATGGACCCAGAGACCTTGGCATAACATGTCTTTGATGCCAATGAGCCGGCAGATGGTG ATGATGGCCCTGTGGCAGCGGAGGCCGTAACTTTGGGTTGTTTCTTCACTTTGATATG GTCTTTTAAATCTTAATGAAATATCATGGAATATTGTATGGGCTTCATATCGTTCTATA TAATGCAAAATGGTGAACCTGCTGTTCTTTGCTTCCCTGAAGCATCCATCCGATCAGTA GCTTTCCCAATAGAAAAACCTGCAGCTCCTTTTTCGTTCCCCCAGCCACAAAAACGGAT CGATTTCTTTCTCTCTTTCCANCATAGTGAAAACGTTCTACCTCAGTATTCTGGAT CAAAACCTCAATGGTTCTCCAGGGACACAGTCAGGGGGCCANAACCTGAGCTCCCCATG ATTCCATCTCTGCTCCCTTACCTTATTTCTTTTTGGCCATTTTCTTTGTGGACAG GTGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_031902
Insert Size:	1710 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_031902.3](#), [NP_114108.1](#)

RefSeq Size: 1678 bp

RefSeq ORF: 1293 bp

Locus ID: 64969

UniProt ID: [P82675](#)

Cytogenetics: 2q11.1

Domains: Ribosomal_S5, Ribosomal_S5_C

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 S5P family. Pseudogenes corresponding to this gene are found on chromosomes 4q, 5q, and 18q. [provided by RefSeq, Jul 2008]