

Product datasheet for **SC320455**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_031902.3
 CGCCCGGGGGCTGTCCGCGGTCCGCGGGCTCCGCCTGCAGTGTGGCCGTCCGGACA
 GTCCCTCACCCCGGCCTGCGTGTGCTGCGTGGACTCGGGCTCAGGAATCCGCTGCGGCC
 CAAGGCTTGCCGTTTGACGAGGAGCAGTCGCGGTAGGCGGTGGGCAAGGCTGCCCTGGGC
 GGAGGCCGAGGCGCGGCTCGGACTCCAGCATGGCGACCGCGGTGCGCGCTGTGGGCTGCC
 TCCCGTGTGTGTAGCGGGACGGCAGGTCATTTATTGGGAGGCAGTGTCCCTAAACA
 CCTTACCAGCAGTTCATTTTGGCATGGAAGAGTGTTCGCGCAATGGCCATTTGTGCAT
 CACTGGGAACCAGAGACCCCATCCCTACGCCAGCTTGAGCCGTGCACTGCAGACACAAT
 GCTGTATTTCTTCTCCAGTCACCTGATGAGCCAGCAGTATAGACCATATAGTTTCTTCA
 CTAATTGACTGCAGATGAGCTGTGAAAAGGCGCTTTAGCAGAGACTGGTGTGGAGCAA
 AAAAGGAAGAGGCAAAAAGAACTAAAAAGAAGAAAAGAAAGGATCTGAACAGGGTCCAGA
 TCATTGGTGAAGGCGTTATGGTTTTCTATGGCCCGACTGAATGTCCCTCTTATGAAAA
 ATGGAGCAGTGCAGACATTGCCAAAAGAAGCAAGGAAGAGCAGGAGAAGGTGGAGGCAG
 ACATGATCCAGCAGAGAGAAGAGTGGGACCGAAAGAAGAAGATGAAGTTAAACGGGAGC
 GAGGATGGAGTGGAACTCATGGGGAGGCATCAGTCTTGCCCCCTGACCTGGTCCCT
 GTGGAGAAACATATGAGGATTTTGATACCAGGATCTTGAGGTAAGAAAGTTTTACTA
 TGACTGCGAAAGAGGGAAGAAAGAAATCGATCCGTGTCTTGGTGGCTGTGGGAAACGGAA
 AAGGAGCTGCAGGTTTTTCTATTGGGAAAGCTACTGATCGGATGGATGCTTTCAGGAAAG
 CAAAGAACAGAGCAGTTCACCATTTGCATTATATAGAAGATGAAGACCATACAATAT
 TCCATGATATTTTATTAAAGTTTAAAAGGACGCATATCAAGATGAAGAAACAACCCAAAG
 GTTACGGCCTCCGCTGCCACAGGGCCATCATCACCATCTGCCGGCTCATTGGCATCAAAG
 ACATGTATGCCAAGTCTCTGGGTCCATTAATATGCTCAGCCTCACCCAGGGCCTCTTCC
 GTGGGCTCTCCAGACAGGAAACCCATCAACAGCTGGCTGATAAGAAGGGCCTCCATGTTG
 TGGAAATCCGGGAGGAATGTGGCCCTCTGCCATTGTGGTTGCGTCCCCCGGGGGCCCT
 TGAGGAAGGATCCAGAGCCAGAAGATGAGGTTCCAGACGTCAAAGTGGACTGGGAAGATG
 TGAAGACTGCACAGGGAATGAAGCGCTCTGTGTGGTCTAATTTGAAGAGAGCCGCCACGT
 AACCTCTCTGGCCTTGTGCAGCCAGTTCCTGTGCTGCCCTGCACCTAGGAGAGACTCAGC
 CCCTCACAGCTTGGGATGTTACCTTGCCTTTTGTGTTTGGAGGAAAGTTTAACTTTA
 AACTCTTGGAAATAAATAATTATAGCTTTCAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_031902

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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]