

Product datasheet for **SC122837**

MRPS23 (NM_016070) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	MRPS23
Synonyms:	CGI-138; COXPD46; HSPC329; MRP-S23
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_016070 edited
TAGTCACGCTCGGTACCGGCGCAGATCATGGCAGGCAGCCGGCTGGAACCGTAGGGAG
CATCTTCTCTCGGACTCGGGACCTGGTTTCGGGCCGGGGTGCTGAAGGAGAAGCCCTGTG
GTTTGACGTATATGACGCCTTTCCCCCGCTGAGGGAGCCCGTCTTCCAAAGGCCTCGAGT
GCGATATGGCAAAGCCAAAGCTCCCATCCAAGACATCTGGTACCACGAGGATCGGATTAG
AGCGAAGTTTTATTCAGTGTATGGGTCTGGTCAAAGAGCTTTTGATCTATTCAATCCAAA
CTTCAAGTCTACCTGTCAACGGTTTGTGGAGAAGTACACTGAGCTACAGAACTTGGAGA
AACAGATGAAGAGAAGTTATTTGTGGAAACAGGGAAGGCTTTATTGGCAGAAGGTGTCAT
TTTAAGACGAGTAGGCGAAGCAAGGACTCAACACGGAGGTAGTCACGTTTCCCGGAAATC
CGAACACTTGAGTGTGAGACACAGACTGCGTTGGAAGAAAACGAGACTCAGAAAGAAGT
TCCACAGGACCAGCATTGTGGAGGCACCTGCAGACCAGTCGAAAGGTCTCTTGCCTCCCTG
AAGGACCTGTATACTGTGTATGCTGGCATTCACTCTACTCACTGGCTGAATGTTGAGC
TATTTTTAAACAGTTGAACTGTGTAATGTTTCTTGATCTCTAAGGTATTATGTTTGCCT
TCTCTTAGTTATTTCTGGGTTGTCAAAAGCTCAGTATCATGGTTTGACAGAAGCAGTTA
TGTGAACCTTTATGTTAGGACATTACTAAATAAAGAATCCCTAGCTGCTTAAAAAAA
AAAAAAA



5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016070 unedited <pre> NNNNNNNGGAAGCGTACAAAATTTGTNATACGACTCATATAGGCGGCCGCGNAATTCGC ACGAGGTAGTCACGCTCGGTACGAGCGCAGATCATGGCAGGCAGCCGGCTGGAACCGT AGGGAGCATCTTCTCTCGGACTCGGGACCTGGTTCGGGCCGGGGTGTGAAGGAGAAGCC CCTGTGGTTTGACGTATATGACGCCTTTCCCCCGCTGAGGGAGCCCGTCTTCAAAGGCC TCGAGTGCGATATGGCAAAGCCAAAGCTCCCATCCAAGACATCTGGTACCACGAGGATCG GATTAGAGCGAAGTTTTATTCACTGTATGGGTCTGGTCAAAGAGCTTTTGATCTATTCAA TCCAAACTTCAAGTCTACCTGTCAACGGTTTGTGGAGAAGTACACTGAGCTACAGAACT TGGAGAAACAGATGAAGAGAAGTTATTTGTGAAACAGGGAAGGCTTTATTGGCAGAAGG TGTCATTTTAAAGACGAGTAGGCGAAGCAAGGACTCAACACGGAGGTAGTCACGTTTCCCG GANATCCGAACACTTGAGTGTGAGCCACAGACTGCGTTGGAAGAAAACGAGACTCAGAA AGAAAGTTCCACAGGACCAGCATTTGGAGGCACCTGCAGACCAGTCGAAAGGTCTCTTGCC TCCCTGAAAGACCTGTATACTGTGTATGCTGGCATTACACTCTACTACTGGCTGAATG TTGAGCTATTTTAAACAGTTGAACTGTGTAATGTTTTCTTGATCTCTAAGGTATTTATG TTGCCCTTCTCTAATTATTTCTGGGGTGTACAAAGCTCAGTATCCATGTTTTGACAGAA GCAGTTATGTGAACCTTTTATGTTAGGCACTTACTAAATAAAGGAATCCCTAGCTGCTTT </pre>
Restriction Sites:	Please inquire
ACCN:	NM_016070
Insert Size:	849 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_016070.2, NP_057154.2</u>
RefSeq Size:	903 bp
RefSeq ORF:	573 bp
Locus ID:	51649
UniProt ID:	<u>Q9Y3D9</u>

Cytogenetics: 17q22

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 7p. [provided by RefSeq, Jul 2008]