

Product datasheet for **SC116482**

MRPS31 (NM_005830) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS31 (NM_005830) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS31
Synonyms:	IMOGN38; MRP-S31; S31mt
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005830, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCCTAGAGTCTCGACGTTCTACCTCTTCGCCCTTTCCCGCCACCCTTTGTCCTCTGGAAGCC
CGGAGACATCAGCGGCTGCGATTATGCTACTACTGTTTCGGCACGGAACAGTCAGGTACCGCAGTTCAGC
GCTGTTGGCCCGACAAAAATAACATCCAAGATATTTGGCACTAACAGTGTGATCTGTAGCAAGAAA
GATAAGCAGTCTGTTCGAACTGAGGAGACTTCCAAGGAGACTTCAGAGAGCCAAGACAGTGAAAAGGAAA
ATACGAAAAAAGACTTGTAGGCATTATTAAGGCATGAAAGTTGAATTAAGCACAGTAAATGTACGAAC
AACAAAGCCCCCAAAAGAAGACCCTTAAAAGTTTGGAAAGCTACACTTGGCAGGCTTCGAAGAGCTACA
GAATATGCTCCAAGAAGAGAATTGAGCCCCTGAGTCCTGAGTTGGTGGCAGCTGCATCTGCTGTGGCAG
ATTCTCTCCCTTTTGATAAGCAAACAACCAAGTCAGAGCTGCTGAGCCAGCTCCAGCAGCATGAGGAAGA
GTCAAGGGCACAGAGAGATGCAAAGCGACCTAAAATTAGTTTCAGTAACATAATATCAGATATGAAAGTT
GCCAGATCTGCTACAGCTAGAGTTCGTTCAAGACCAGAGCTTCGGATTCAGTTTGTGATGAAGGCTATGACA
ATTATCCTGGCCAGGAGAAGACGGATGATCTTAAAAAAGGAAAAATATATTCACAGGGAAAAGACTTAA
TATTTTGTGACATGATGGCAGTTACTAAGAAGCACCTGAAACAGACACATCACCTTCACTTTGGGATGTG
GAATTTGCTAAGCAGTTAGCCACAGTAAATGAACAACCCCTTCAGAATGGATTTGAAGAGCTGATCCAGT
GGACAAAAGAGGGGAAACTATGGGAGTTCCCAATTAACAATGAAGCAGGTTTTGATGATGATGGTTTCAGA
ATTTTCATGAACATATATTTCTGGAGAAACACCTGGAGAGCTTTCCAAAACAAGGACCAATTTCGCCACTTC
ATGGAGCTGGTACTTGTGGCCTTTCCAAAACCCATATCTTAGTGTTAAACAGAAGGTTGAACACATAG
AGTGTTTAGAAATTATTTAATGAAAAAAGGATATTCTAAAAGAAAGTAACATACAGTTCAATTA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005830 unedited ATTTTGTAAATACGACTTCACTATAGGGCGGCCGCGATTCCGGCACGAGGATGTTTCCTAGA GTCTCGACGTTCTACCTCTTCGCCCCCTTTCCCGCCACCCTTTGTCTCTGGAAGCCCG GAGACATCAGCGGCTGCGATTATGCTACTACTGTTCCGGCACGGAACAGTCAGGTACCGC AGTTACAGCGCTGTTGGCCCGGACAAAAATAACATCCAAGATATTTTGGCACTAACAGT GTGATCTGTAGCAAGAAAGATAAGCAGTCTGTTTGAAGTGAAGGAGACTTCCAAGGAGACT TCAGAGAGCCAAGACAGTGAAGGAAAAATACGAAAAAAGACTTGTAGGCATTATTAAG GGCATGAAAGTTGAATTAAGCACAGTAAATGTACGAACAACAAAGCCCCAAAAAGAAGA CCACTTAAAAAGTTTGAAGCTACACTTGGCAGGCTTCAAGAGCTACAGAATATGCTCCA AAGAAGAGAATTGAGCCCTGAGTCTGAGTTGGTGGCAGCTGCATCTGCTGTGGCAGAT TCTCTCCCTTTGATAAGCAAACAACCAAGTCAGAGCTGCTGAGCCAGCTCCAGCAGCAT GAGGAAGAGTCAAGGGCACAGAGAGATGCAAAGCGACCTANAATTAGTTTCAGTAAACATA ATATCAGATATGAAAGTTGCCAGATCTGCTACAGCTAGAGTTCGTTCAAGACCAGAGCTT CGGATTCAGTTTGTGAAGGCTATGANCATTATCTGCCAGNAGAAGACGGATGATCTT AAAAAAGGAAAAATATCCACAGGGAAAAGACTTATATTTTTGACATGATGCCAGNTAC TAAAGAAGCACCTGAACAGACACATCACCTTCACTTTGGATGTGNATTTGCTAGCAGTA CNCCAGTAAATGACACCCCTCAGATGGATTGAGACTGATCG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005830 unedited TTTGGACGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTCTAGTAAAATTAT TTTATTTAGTTGAATATCCATCTCTAATTGTTTGAATAAAAAATTTCCATGGTCTTAAT TGAAGTGTATGTTACTTTCTTTTAAAAATATCCTTTTTTTCATTAATAATTTCTAAACC ACTCTATGTGTTCAACCTTCTGTTTAACTAAGATATGGGTTTTTGGAAAGGCCACAAG TCACCAGCTCCATGAAGTGGCGAATTGGTCCTTGTGTTTGGAAAGCTCTCCAGGTGTTTCT CCAGAAATATATGTTTCATGAAATCTGAACCATCATCATCAAAACCTGCTTCATTGTTAA TTGGAACTCCCATAGTTTCCCCTCTTTTGTCCACTGGATCAGCTCTTCAAATCCATTCT GAAGGGGTTGTTCAATTAAGTGTGCTAACTGCTTAGCAAATCCACATCCCAAAGTGAAG GTGATGTGCTGTTTCAGGTGCTTCTTGTAACTGCCATCATGTCAAAAATATTAAGTC TTTTCCCTGTGAATATATTTTTCTTTTTTAAAGTATCCGCTTCTCTCGCCAGGAT AATTGTCATAGCCTTCATCAAATGAATCCGAAGCTCTGGTCTTGAACGAACTCTAGCTG TAGCAGATCTGGCAACTTTCATATCTGATATTAAGTACTGAACTAATTTTANGTCGCT TTGCATCTCTGTGCCCTTGACTCTTCTCATGCTGCTGGAGCTGGCTCAGCAGCTCTG ACTTGGTTGTTGCTTATCAAAGGGGAGAGAATCTGCCACAGCAGATGCAGCTGCCACCA AACTCAGACTCAGGGGCTCAATTCTCTTTGNAGCATATCCTGTAGCTCTTCGAGCCT GCCAGNTAGCTCCAACCTTAAAGTGCCTCTTTGGGGCTTTGTGTGCCATTACTGGGC TAATCCACTTCATGCCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_005830
Insert Size:	1300 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).
RefSeq:	NM_005830.2 , NP_005821.1
RefSeq Size:	1284 bp
RefSeq ORF:	1188 bp
Locus ID:	10240

UniProt ID: [Q92665](#)

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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that has also been associated with type 1 diabetes; however, its relationship to the etiology of this disease remains to be clarified. Pseudogenes corresponding to this gene have been found on chromosomes 3 and 13. [provided by RefSeq, Jul 2008]