

Product datasheet for **SC11387**

MRPS35 (NM_021821) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	MRPS35
Synonyms:	HDCMD1IP; MDS023; MRP-S28; MRPS28
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021821, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCGCCGCTCCCAGCATGGCTGTCTCTGCAGTCGAGGGCAAGGACTCTGCGTGCATTCTCCA
CTGCCGTCTACTCGGCCACTCCGGTCCCGACACCTAGCCTGCCGAAAGAACACCCGAAATGAAAGGCC
ACCAAGAAGAAAGGCACTACCTCCTAGGACAGAGAAAATGGCTGTTGACCAGGACTGGCCTAGTGTTC
CCAGTTGCAGCACCATTAAACCCCTCTGCAGTACCTCTTCTGTTTGAATGGGTATCCAGTAAAAAAGG
GCGTGCCCATGGCAAAGGAGGGAAATCTAGAATTTTAAAGATTCCCAATTTTCTGCATTTGACTCCTGT
AGCAATTAAGCACTGTGAAGCCCTTAAGATTTTGCAGTGTGAGCCAGCCGCACTGGACAGTGAC
GAGAAATGTGAGAAGCATTTTCCAATTGAAATTGACAGCACTGATTATGTTTCATCAGGACCATCTGTTT
GGAACCCAGAGCAGGAGTAGTAGTCTTAAGAGTAAAGCTTTCCAGTTTGAATTTAGATGATCAGCAAA
GAAGAAATTAATTAACCTGTAGGAGAGCGATACTGCAAGACCACAGATGTGCTTACCATCAAAACAGAT
AGGTGCCCTTTAAGGAGGCAGAAATACGATTATGCAGTGTATCTACTAACAGTGTATACCATGAGTCTT
GGAATACTGAAGAATGGGAAAAAGTAAGACTGAAGCAGACATGGAAGAGTATATATGGGAAATAGCTC
ATCAGAAAGAAATATCCTGGAAACGTTTCTCCAGATGAAAGCTGCTGAGAAAAATATGGAATAAATAAA
GAAGAGCTCCTTGGTACTAAAGAAATTGAAGAGTACAAAAAGTCTGTTGTTAGTCTTAAAAATGAGGAGG
AAAATGAAAATTCATTTCTCAGTACAAAGAATCCGTGAAGAGACTATTAATGTGACATGA

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5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_021821 unedited
 GTTCACTATTTGTAACGACTCACTATAGGCGGCCGGAATCGACACGAGGGGCCGCCG
 GCTCCCAGCATGGCTGTCTCTGCAGTCGAGGGCAAGGACTCTGCGTGCATTCTCCACTGC
 CGTCTACTCGGCCACTCCGGTCCCGACACCTAGCCTGCCGGAAGAACACCCGGAATGA
 AAGGCCACCAAGAAGAAAGGCACTACCTCCTAGGACAGAGAAAATGGCTGTTGACCAGGA
 CTGGCCTAGTGTTTACCCAGTTGCAGCACCATTAAACCCCTCTGCAGTACCTCTTCTGT
 TCGAATCGTTATCCAGTAAAAAAGGGCGTGCCCATGGCAAAGGAGGGAATCTAGAACT
 TTAAAGATTCCCAATTTTCTGCATTTGACTCCTGTAGCAATTAAGAGCACTGTGAAGC
 CCTTAAAGATTTTTGCACTGAGTGGCCAGCCGCACTGGACAGTGACGAGAAATGTGAGAA
 GCATTTTCAATTGAAATTGACAGCACTGATTATGTTTCATCAGGACCCTCTGTTCCGAA
 CCCCAGAGCAGGAGTAGTCTTAAGAGTGCCTTTAAGGAGGAGAATTACCATATG
 CAGTGTATCTACTAACAGTGTATACCATGAGTCTTGAATACTGAAGAATGGGAAAAA
 GTAAGACTGAAGCAGACCTGGAAGAGTATATATGGGAAAATAGCTCATCACAAGAAATA
 TCCTGGGAACCGCTTCTCCAGATGAAAGCTGCTGAGAAAAATTTGAAATAAATTAAGAA
 GAGCTTCCTTGGTACTAAAGAAAACGAAGAGTACAAAAGGCCCGTCGCTAGCCTTAAAA
 TGAGGAGGAAATGACAATTCCTTTTCTCAGTCCAAAGAAATCCGCGAAAAGACTATTAAT
 GTGACTGGATTAGGGGTTAAAN

3' Read Nucleotide

Sequence:

>OriGene 3' read for NM_021821 unedited
 ACCGCGGCCGCTATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAACTCAGTAATTCCTT
 TATTTTGATTTTAAATTAATCACAACCATCGAAGTGGTAAGAAACAGCTGACAGGTGTAC
 TAAAAAATACTGAATTGACAGCTACATTGAATGCAGGGTTTCCAGGGTAGTCTTATTT
 TGCTCACTTACTCCAATTACATTCAAGGTCGTTATGCCTCATCTTTTCTGAGCTGTGGC
 AGCTCTAACTGGGGACCCAGAGAGATACATACCAGTAATCTCCACTTCTACTTTTCTG
 GTAGCTTGGCCTGGCAAAATGAGCCCAATCTAGAAAGTAGGATGCTAAACAAAGTT
 GAATCAACATATCTTTTAGAAAAATATCAGGTTAGAGAATACTCCTGAGGACCTGTTTCT
 AACCAGAGTTGACAAATGTGAAAAATGCATCAGCTAGACAGCAGTCATGTGAACACAGCC
 CGGAAGTCAAGTCAAGGAAATGGGTTCTGGGCTGCCTTCCAGGTAACCAAAACCATT
 TATTCAAAAGCAACTACTGAAATGCCAGCTTGTGGGAAAGAAATGGGAAAGGGGATAAA
 AATCCACATTAATGCATGTATTTACATGAAAACCAAGCTATTTATGTAGAAATTAAT
 CAAAACCTTTAGACCAAGAAGAAATCAGAGACCTCCCAATCTATTGCCCACTGTAAAA
 CATTAAAACTCTGGAGATATCCTTGCCATTAAGCACTACCATGAAGGAAATAAATTTAA
 CCTTTGAGGAAAAAACAGCATCTTAACATTTTACATTTAATTCAATTTCAACCTGCTC
 CACTTTTCTAAATTAATAATCCAGCCATTTTCTACCCCAATATGGCCATTACAAA
 GCCTTCCACGCATCTTTGAACG

Restriction Sites:

NotI-NotI

ACCN:

NM_021821

Insert Size:

1790 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_021821.1, NP_068593.1</u>
RefSeq Size:	1919 bp
RefSeq ORF:	684 bp
Locus ID:	60488
UniProt ID:	<u>P82673</u>
Cytogenetics:	12p11.22
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 has had confusing nomenclature in the literature. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Pseudogenes corresponding to this gene are found on chromosomes 3p, 5q, and 10q. [provided by RefSeq, Jul 2010] Transcript Variant: This variant (1) encodes the longer isoform (1).