

Product datasheet for **SC114167**

MRPL35 (NM_016622) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: MRPL35

Synonyms: L35mt; MRP-L35

Mammalian Cell None

Selection:

Vector: pCMV6-XL5

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF within SC114167 sequence for NM_016622 edited (data generated by NextGen Sequencing)

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ATGGCTGCCTCTGCCTTTGCTGGTGCAGTGAGAGCAGCTTCAGGAATCCTACGGCCCCTG
AATATTTTGGCATCTTCAACCTACGCAACTGTGTCAAGAATGCCTCTTATTTCTGCA
TTGTCCACTGGACGTTTTAGTCATATTCAGACACCAGTTGTTTCCTCCACTCCCAGACTT
ACCACATCTGAGAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCC
CCCGTGCTTCCAAGTGCTGAAAGCTGCCAGTCAGATCTTAACATACTTCAGTGCAAGA
AAAGGCAAGAGAAAGACCGTGAAAGCTGTCATCGATAGGTTTCTTCGACTTCATTGTGGC
CTTTGGGTGAGGAGAAAGGCTGGCTATAAGAAAAAATTATGGAAAAAGACACCTGCAAGG
AAGAAGCGATTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAACTCTTAGATAAA
ATGACGACGTCCTTCTGGAAGAGGCGAAACTGGTACGTTGATGATCCTTATCAGAAGTAT
CATGATCGAACAAACCTGAAAGTATAG
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Clone variation with respect to NM_016622.3



5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_016622 unedited
 NTTTCAGGAATTAGAACACGATTACTATAGGCGGCCCGCAATTCGCACGAGGCTCGTC
 CGAATTCGGCACGAGGCTCGTGCCGAATTCGGCACGAGGCGAAGGTGAAGATGGCTGCC
 TCTGCCCTTTGCTGGTGCAAGTGAAGCAGCTTCAGGAATCCTACGGCCCCGAAATATTTTG
 GCATCTTCAACCTACCGCAACTGTGTCAAGAATGCCTCTCTATTCTGCATTGTCCACT
 GGACGTTTTAGTCATATTCAGACACCACTGTTTCTCCACTCCCAGACTTACCACATCT
 GAGAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCCCCGTGCTT
 CCAAGTGCTCGAAGCTGCCAGTCAGATCTTAACATACTTCAGTGCAAGAAAAGGCAAG
 AGAAAGACCGTGAAAGCTGTCATCGATAGGTTTCTTCGACTTCATTGTGGCCTTTGGGTG
 AGGAGAAAGGCTGGCTATAAGAAAAAATTATGAAAAAGACACCTGCAAGGAAGAAGCGA
 TTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAACTCTTAGATAAAATGACGACG
 TCCTTCTGGAAGAGGCGAACTGGTACGTTGATGATCCTTATCAGAAGTATCATGATCGA
 ACAAACCTGAAAGTATAGATCAGAAGTTTCACTTGTTTCTCAGTTATTGGATATGTATCT
 TTGTGTACATATCTTTGAAAAATGGATAAGTACAAAACCTGATGTAAATTGTACCAATG
 AATATGTAAACATACAGTGACCACATTAACCTAGAAAAGTTTAAACTTAATGGATCA
 GACTTTGCCAGATTGTTTAGGCAACAGCAATTTACATGGTGCATTATTTTAACAAAGGT
 ATTGCTTN

3' Read Nucleotide

Sequence:

>OriGene 3' read for NM_016622 unedited
 CTTGTACGGCGGCTATCTACGATCGAGTTTTTTTTTTTTTTTACTTTAGGCAAACT
 CTTTAATGAAAGACATTCATTGAACACATCATAAAATCACTGTTGATGATAAGCTCCTCC
 CTACCCACAAAACAAAATCGCATGTATGAAATTCCTTTCCCGTAAGCCATGCGACTGC
 CACACATACCACTCCCACCCATATTTGCATGCTGAGGCTCTGGATGCCACCCCTTATCCT
 ATACACCTGACCATGGCCTACAGGACAAACCAAGGCGCCATCCAGCAACTGACCCAACAA
 AACCTTGCCACTCCATATCCGCCCNTAAACACATACTGGCCGCTCCCCACCCCTCCTCTC
 CCACCCCCCGCGCCCATACCCCCCTCTCCTCCAGGCCCTCCCCACCCCGCCCCC
 ACACCTGCGCACCCCCACGCCCGGCTCCCTAACGGTCGCCCCCTGCCAAACCCCCACA
 CGAACCCCAACCGACACTACCCCCCTCCCCACCCGCCCCACCTGCACCCCGCCTC
 CTCCTCCCAACCCCTATCGACACCCCTCCCCCCCCCACCCTTCTCCCCC
 CCTTCCAGCCTACTTGCAACCCCCACACATACTACCCCCCCCCCACCCTCCACCTAC
 TCCCCCTCTCCCCCGGCCAATCCCATCCGTCACCCCTCCGACCTTCCCCACCCC
 CGCCCCCCCCCTCATCATACCACACTCCGCTCCCCACCTTCCCCCTTCCACCCCA
 ATTCCCGCGCGCTCGTCCCCTTACCCCCCACCAGCCCAACCCCTGACCCATCCT
 TCAACATCCCCCTCGCCCCCCCCACCNATAACCCCCCTCCCCGCTCCCCCCCCCCCC
 CACTCCCATCTCCCCCTTCATCACCCCCACCCACCCCTCCTCCCCCCCCCACCCTCC
 CCACCCCCACCCATCCACCGATCCACCACCCCCCATCCCTCCCGCCACC

Restriction Sites:

NotI-NotI

ACCN:

NM_016622

Insert Size:

3340 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_016622.2, NP_057706.2</u>
RefSeq Size:	2805 bp
RefSeq ORF:	567 bp
Locus ID:	51318
UniProt ID:	<u>Q9NZE8</u>
Cytogenetics:	2p11.2
Protein Families:	Druggable Genome
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 39S subunit protein. Sequence analysis identified three transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 6p, 10q, and Xp. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) is the predominant transcript and encodes isoform a.