

Product datasheet for SC113152

MRPL1 (NM_020236) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: MRPL1

Synonyms: BM022; LIMT; MRP-LI

Mammalian Cell None

Selection:

Vector: pCMV6-XL4

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

Fully Sequenced ORF: >OriGene ORF within SC113152 sequence for NM_020236 edited (data generated by NextGen Sequencing)

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ATGGCGGCGGCCGTAAGGTGCATGGGTAGAGCCTTGATACATCATCAAGGCATAGCCTT
TCCAAGATGGTTTATCAGACATCACTTTGTTCTTGTTCTGTAACATCCGAGTGCCCAAC
AGACATTTTCTGCTGCTACAAAGTCTGCAAGAAAAACAAAAAGGTGCTAAAGAAAA
ACACCAGATGAGAAAAAGATGAAATAGAAAAATAAAAGCATATCCCTATATGGAAGGC
GAACCTGAGGATGATGTCTATTTAAACGCTTATACCCGAGACAGATATATGAGGTGGAG
AAAGCTGTTCACTTACTTAAGAAATTTCAAATTCTTGACTTTACTAGTCCAAAGCAAAGT
GTTTATCTTGATTTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTT
ACAGAGAAATGCATCAGAGGTCAAAATAGCGGAAGAAAAATGGAGCTGCATTGTCAGGAGGC
ACTAGTCTGATACAGAAGATTTGGGATGATGAAATTGTTGCAGACTTTTACGTAGCTGTT
CCAGAAATAATGCCTGAACCTAATCGATTAAGGAAGAACTGAATAAAAAATATCCAAAG
CTTTCTCGAAATTCATTGGCCGTGACATCCCCAAATGCTTGAATTATTTAAAAATGGA
CATGAAATTAAGGTAGATGAAGAAAGGGAGAACTTTCTCCAGACCAAAATAGCAACATTG
GATATGTCAAGTGACCAGATAGCTGCCAATCTGCAAGCAGTTATTAATGAAGTTTGTAGG
CACAGACCGCTGAATTTGGGTCCCTTTGTGGTACGTGCTTTCTTCGTAGTTCAACAAGT
GAAGGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAAATGAAGAAAGT
GAAAAAGAAGATGCCTAA
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Clone variation with respect to NM_020236.3



5' Read Nucleotide
Sequence:

>OriGene 5' read for NM_020236 unedited
 CATATTTGTATACGACTCACTATAGGCGGCCGCGCTAGTACGGNACCTTTTTTTAATTCT
 TCCAGTAGAAACGTAGGAACAATTTCTGTAACGCAATCCGAGTGCCCAACATGGCGGC
 GGCCGTAAAGTGTCATGGGTAGAGCCTTGATACATCATCAAAGGCATAGCCTTTCCAAGAT
 GGTTTATCAGACATCACTTTGTTCTTGTCTGTAACATCCGAGTGCCCAACAGACATTT
 TGCTGCTGCTACAAAGTCTGCAAAGAAAACAAAAAAGGTGCTAAAGAAAAACACCAGA
 TGAGAAAAAAGATGAAATAGAAAAATAAAAGCATATCCCTATATGGAAGGCGAACCTGA
 GGATGATGTCTATTTAAACGCTTATACCCGAGACAGATATATGATGTGGAGAAAGCTGT
 TCACCTACTTAAGAAATTTCAAATCTTGACTTTACTAGTCCAAAGCAAAGTGTATCT
 TGATTTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTTACCAGTGT
 TCTTAGTTTGCCATACCCATTTGCTTCCGAAATAATAAAGTTGCTGTATTTACAGAGAAT
 GCATCAGAGGTCAAATAGCGGAAGATATGGAGCTGCATTTGCAGGATGCACTAGTCTGA
 TACAGAAGATTTGGGATGATGAAATTGTTGCAGACTNTTACGTAGCTGTTCCAGATATAA
 TGCCTGAACCTTAATCGATTAAGGAAGAATACTGATAAAAAATCCTAAANGCTTCTCGAAA
 TTCCATTGGCCGTGACATCCCAAAATGCCNNNGATATNTAAAAATGACATGNAATTANGG
 TNATGATGAAAGGGAGAACTTTCTCCAGACCAAATAGCACATTGGATATNGTCAAGTGAC
 CAGAAGCTGCCAATCTGCAGCAGTATTAATGGAAGTTGTATGCACCACCGCTGAATTTGG
 TCCCTTGGGGNACGGCCTCCCTCCGAGTTACAAAGGGAAGGTTATACTGAAATTGATC
 CATTGTGCCTAAAAAGTAAA

3' Read Nucleotide
Sequence:

>OriGene 3' read for NM_020236 unedited
 GGAAAACTAGGTACGCGGCCGCACATCTAAATCGAGTTTTTTTTTTTTTTTTTTTTTTT
 TGGAATAATATGCTGTATTATCATTTTCTCCATTGCTTCTTAAACCACTGAAAGTAATT
 TCACAATTCACCACATTTAGGCATCTTCTTTTCACTTTCTTCATTTTTTACTTCTTTAG
 GCAACAATGGATCAATCTTCAGTAATAAACCTTCACTTGTTGAACTACGAAGGAAAGCAC
 GTACCAACAAGGGACCCAAATTCAGCGGTCTGTGCCTACAACTTCATTAATAACTGCTT
 GCAGATTGGCAGCTATCTGGTCACTTGACATATCCAATGTTGCTATTTTGGTCTGGAGAA
 AGTTCTCCCTTTCTTCACTACCTTAATTTCACTGTCCATTTTAAATAATTCAAGCATT
 TGGGGATGTACGGCCAATGGAATTTGAGAAAGCTTTGGATATTTTATTCAGTTTCT
 TCCTTAATCGATTAAGTTCAGGCATTATTTCTGGAACAGCTACGTAAGTCTGCAACAA
 TTTTCATCATCCCAATCTTCTGTATCAGACTAGTGCCTCCTGCAATGCAGCTCCATTTT
 CTTCCGCTATTTTGACCTCTGATGCATTCTCTGTAATAACAGCACTTTATTGATTTCCG
 AAGCAATGGGTATGGCAAACTAAGAACTGGTAAATGGCTCCAGTTTTTCTTCTTTC
 CCAGTGCCATATCCAGTGTCAAATCAAGATAACACTTTGCTTTGGACTAGTAAAGTCAAG
 AATTTGAAATTTTCTAAGTAGTGAACAGCTTTCTCCACTCATATATCTGTCTCGGTATA
 AGCGTTTTAAATAGACTCATCTCAGGTTCCGCTCCATATAGGGAATGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_020236

Insert Size:

1250 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:	NM_020236.2 , NP_064621.2
RefSeq Size:	1284 bp
RefSeq ORF:	912 bp
Locus ID:	65008
UniProt ID:	Q9BYD6
Cytogenetics:	4q21.1
Domains:	Ribosomal_L1
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 that belongs to the L1 ribosomal protein family. [provided by RefSeq, Jul 2008]