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Product datasheet for SC111188

MRPL3 (NM_007208) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL3 (NM_007208) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL3
Synonyms:	COXPD9; MRL3; RPML3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC111188 sequence for NM_007208 edited (data generated by NextGen Sequencing)

ATGCCGGGTTGGAGGCTGCTGACGCAGGTCGGCGCCCAGGTGCTGGGTCGACTCGGGGAC
GGCCTGGGTGCTGCCCTGGGCCCGGGGAACAGAACACACATCTGGCTTTTTGTTAGAGGT
CTTCATGGAAAGAGTGGTACATGGTGGGATGAGCATCTTTCTGAAGAAAATGTCCCATTC
ATTAAGCAGTTGGTCTCTGATGAAGATAAAGCCCAATTAGCAAGTAAACTGTGTCCTCTG
AAAGATGAACCATGGCCTATACATCCTTGGGAACCAGGTTCCTTTAGAGTTGGTCTTATT
GCCTTGAAGCTGGGCATGATGCCTTTATGGACCAAGGATGGTCAAAAGCATGTGGTCACA
TTACTTCAGGTACAAGACTGTCATGTCTTAAAATATACGTCAAAGGAAAACTGTAATGGA
AAAATGGCAACCCTGTCTGTAGGAGGAAAAACTGTATCACGTTTTCGTAAAGCTACATCC
ATATTGGAATTTTACCGGGAACTTGGATTGCCGCCGAAACAGACAGTTAAAATCTTTAAT
ATAACAGATAATGCTGCAATTAAACCAGGCACTCCTCTTTATGCTGCTCACTTTCGTCCA
GGACAGTATGTGGATGTCACAGCCAAAACTATTGGTAAAGGTTTTCAAGGTGTCATGAAA
AGATGGGGATTTAAAGGCCAGCCTGCTACGCATGGTCAAACGAAAACCCACAGGAGACCT
GGAGCTGTTGCAACTGGTGATATTGGCAGAGTCTGGCCTGGAACTAAAATGCCTGGAAAA
ATGGGAAACATATACAGGACAGAATATGGACTGAAAGTGTGGAGAATAAACACAAAGCAC
AACATAATCTATGTAAATGGCTCTGTACCTGGACATAAAAATTGCTTAGTAAAGGTCAAA
GATTCTAAACTGCCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCCTACATATTTT
CCTGATGGAGATGAAGAGGAACTGCCAGAAGATTTGTATGATGAAAACGTGTGTCAGCCC
GGTGCGCCTTCTATTACATTTGCCTAA

Clone variation with respect to NM_007208.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007208 unedited
GGGGGGGGGCGGGGCCCACNNNCCCTTTTTTTNCCCCCCCCCGGTTCAGAATTTGTNATA
CGATTACTATAGGCGGCCGCGNATATCGCACGAGGGTGGGNGACTCCCTNGAAGCAGAGC
GGCAGGGCGCCCGGAAGTCGTGAGTCGAGTCTTCCCGGGCTAATCCATGCCGGGTTGGAG
GCTGCTGACGCAGGTCGGCGCCCAGGTGCTGGGTCGACTCGGGGACGGCCTGGGTGCTGC
CCTGGGCCCGGGGAACAGAACACACATCTGGCTTTTTGTTAGAGGTCTTCATGGAAAGAG
TGGTACATGGTGGGATGAGCATCTTTCTGAAGAAAATGTCCCATTCATTAAGCAGTTGGT
CTCTGATGAAGATAAAGCCCAATTAGCAAGTAAACTGTGTCCTCTGAAAGATGAACCATG
GCCTATACATCCTTGGGAACCAGGTTCCTTTAGAGTTGGTCTTATTGCCTTGAAGCTGGG
CATGATGCCTTTATGGACCAAGGATGGTCAAAAGCATGTGGTCACATTACTTCAGGTACA
AGACTGTCATGTCTTAAAATATACGTCAAAGGAAAACTGTAATGGAAAAATGGCAACCCT
GTCTGTAGGAGGAAAAACTGTATCACGTTTTCGTAAAGCTACATCCATATTGGAATTTTA
CCGGGAACTTGGATTGCCGCCGAAACAGACAGTTAANATCTTTAATATAACAGATAATGC
TGCAATTAAACCAGGCACTCCTCTTTATGCTGCTCACTTTCGTCCAGGACAGTATGTGGA
TGTCACAGCCAAAACTATTGGTAAAGGTTTTCAGGNTGTCATGANNAGATGGGGATNTAA
AGGCCAGNCTGCTACGCATGGTCAAACGAAAACCACAGGAGACCTGNAGCTGTTGCACCT
GGTGATATTGGCAGAGTCTGGCCTGGNAACTAAATGCCCTGGAAAATGGGAAACATATAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007208 unedited
CGCGGCACGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTGATAATTTATGATTTTAT
TGTCTTTCCTTTGTCCGGCCTTTAACATGTTTCTGTAATTTAAATAAAAATCTATTTACT
TTCTCCATTTTAGCAAATGGTTTCTTTACCCAAATAGGTTGCACTATAGTCCCCATATGG
TTTTCTACTGTTCCACAACCACTATTTCACAAAGATTGACAAAACTTTAATAAAAGTTAA
ATTTACAGACATCTTAAGATAACTTGGGAAATATGTAGTAAAAAAGAATCGAGTCCACAA
ATTAAGAATATTTTGCTAATATGCCCAACACCAATTTCAGCAAATCCAATCTACTTAACT
CATATATTTAATGTGGTAATTTTTCTAACAAAATTTAATGGGGGTATGAATGATATATTT
ATGCCCTTGACAAAGATGACATGTGTGATTTTGTTGTGACTAAGAAAGGAGAGTATGATT
TCTGGTGGTTATGATATCACTCTGGCTCATCGAAGCTCACAGAATATGTAAGGTTCTGCC
ACGTCCAAAGATGTTAGGCAAATGTAATAGAAGGCGCACCGGGCTGACACACGTTTTCAT
CATACAAATCTTCTGGCAGTTCCTCTTCATCTCCATCAGGAAAATATGTAGGGAATGGTA
GATTTTTACCGAGATCCTTATATGCAGGCAGTTTAGAATCTTTGACCTTTACTAAGCAAT
TTTTATGTCCAGGTACAGAGCCATTTACATAGATTATGTTGNGCTTTGTGTTTATTCTCC
ACACTTTCAGTCCATATTCTGTCCTGTATATGTTTCCCATTTTTNNCAGCATTNTAGTTC
CCAGCCAGACTCTGNCAATATCACCAGNTGCAACAGCTNCCAGTCTNCTGTGGTNTTTCG
TTTTGACATGCGTAGNCAGCTGGCCTTTAATNCCCATCTTTCATGACACCTGNNAACTTN
NACATAGNNTTGCTGGN

Restriction Sites: NotI-NotI

ACCN: NM_007208

Insert Size: 1540 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.
RefSeq:	NM_007208.2, NP_009139.1
RefSeq Size:	1750 bp
RefSeq ORF:	1047 bp
Locus ID:	11222
UniProt ID:	P09001
Cytogenetics:	3q22.1
Domains:	Ribosomal_L3
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 that belongs to the L3P ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 13q. [provided by RefSeq, Jul 2008]