

Product datasheet for SC111157

MRPL28 (NM_006428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL28 (NM_006428) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL28
Synonyms:	MAAT1; p15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111157 sequence for NM_006428 edited (data generated by NextGen Sequencing) <pre> ATGCCTCTACACAAGTATCCCGTGTGGCTCTGGAAGCGGTTGCAGCTGCGGGAGGGCATC TGTTCCCGCCTGCCGGCTACTACCTGCGCTCCCTGGAGGAGGAGCGGACGCCCACTCCC GTGCACTATAGGCCTCATGGGGCCAAGTTCAAGATCAACCCCAAGAACGGGCAGCGGGAG CGTGTGGAGGACGTGCCATTCCCATCTACTTTCCCCCGAATCCAGCGGGGGTTGTGG GGCGGCGAGGGCTGGATCCTGGGCCAAATATATGCCAACAACGACAAGCTCTCCAAGAGG CTGAAGAAAGTGTGGAAGCCACAGCTGTTTGAGCGAGAGTTCTACAGTGAGATCTTGGAC AAGAAGTTCACAGTGACTGTGACCATGCGGACCCTGGACCTCATCGATGAGGCTTACGGG CTCGACTTTTACATCCTCAAGACCCCGAAGGAGGACCTGTGCTCCAAGTTTGGGATGGAC CTGAAGCGAGGGATGCTGCTGCGGCTTGCCCGGAGGACCCCGAGCTGCACCCCGAGGAC CCCGAGCGGCGGGCAGCCATCTACGACAAGTACAAGGAATTTGCCATCCCAGAGGAGGAG GCAGAGTGGGTGGGCCTACGCTGGAGGAGGCCATTGAGAAGCAGAGACTTTTGGAGGAG AAGGACCTGTACCCCTGTTCAAGATCTATGTGGCGGAGCTGATCCAGCAGCTGCAGCAG CAGGCACTGTGAGAGCCGGCGGTGGTGCAGAAGAGAGCCAGTGGCCAGTGA </pre>

Clone variation with respect to NM_006428.4

40 c=>t;79 c=>t;355 c=>t;417 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006428 unedited
 TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAGAGCCGGGGG
 CGGGGTAGCGGCTCGCGATGCCTCTACACAAGTATCCCGTGTGGCTCTGGAAGCGGTTG
 CAGCTGCGGGAGGGCATCTGTTCCCGCTGCCCGGCTACTACCTGCGCTCCCTGGAGGAG
 GAGCGGACGCCACTCCCGTGCCTATAGGCCTCATGGGGCCAAGTTCAAGATCAACCCC
 AAGAACGGGACGCGGGAGCGTGTGGAGGACGTGCCATTCCCCTACTTTCCCCCGAA
 TCCCAGCGGGGTTGTGGGGCGGCGAGGGCTGGATCCTGNGCCAAATATATGCCAACAC
 GACAAGCTCTCCAAGAGGCTGAAGAAAGTGTGGAAGCCACAGCTGTTTGAGCGAGAGTTC
 TACAGTGAGATCTTGACAAGAAGTTTACAGTGACTGTGACCATGCGGACCCTGGACCTC
 ATCGATGAGGCTTACGGGCTCGACTTTTACATCCTCAAGACCCCGAAGGAGGACCTGTGC
 TCCAAGTTTGGGATGGACCTGAAGCGAGGGATGCTGCTGCGGCTTGCCCGCAGGACCCC
 CAGCTGCACCCCGAGGACCCGAGCGGCGGGCAGCCATCTNACGACAGTACAGGGGAATT
 GCCATCCCAGAGGAGGAGGCAGAGTGGGTGGGCTCACGCTGGANGAGGCCATTGAAAGC
 AGAGACTTTTGGAGGAGGAGGACCTGTCCCTGTTTCAAGTCTATGTGGGCGAGCTGATCA
 GCAGCTGCAGCAGCAGCTGTCAAAGCCGGCGGTGTGCANAAGAGACCAGTGGCCAGTG
 ACCACCAGTTCCTCCATGCTGACCACAGGCCAGCTTTCCTGGCAGCCCTTGCACTGAG
 GACCAGATCCCGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006428 unedited
 GACCGCGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTGGCTGGGCCAAAATTTCTTGCTTCCGGGCCACGGGCACAAA
 GAAACTGGCCAAAACCTTGGGGCCCACTGAAAAGAACCTTTGGGGGGCCAAAGCCTT
 CTGGGGATCCCTTCCAACTGGCCCGGGCTTGAAGGGCTGGGCCACACACCAAAACCC
 GGATCCCCCCCCCTGGCCACCGGGGGCCTTACAAGTCCCGGGATTTGTGCTCAATGC
 AAAAGGCTGGCAAGGAAAACCTGGGCCTGTTGGTCAAGCATGGAAGAACTTTGTGGGCAC
 TGGGCACTGGGTTTTTTTTGGACCACCCCGGGTTTTACAATGCCTGGTGGTGAACCTGG
 TGGATCAACTTCCCCACATAATCTTTAACAGGGGACAGGGGCTTTTCTTCAAAAAT
 CTTTGGTTTTTAAATGGCTCCTTCAACGGGAGGGCCACCACTCTGCCTTCTCCTCTGGG
 AAGGAAAATCCTTGGACTTGTCTTAAAGGCTGCCCCCGCTCGGGGTCCTCCGGGTGC
 AACTGGGGTCTGCCCCGCAACCCACAAAATTCCTCGCTTAGGGCCATTCCAATTG
 GGACCACAGTCTCCTTTGGGGCTTGAAGGTGTAAAAATCCACCCCGCAACCTAATTG
 ATGAGGGCCAAGGGGCCCATGGCCACACACCTGGAACCTTTTGGCACAATTTTACTG
 GAAAAATTTTCTTAAACAGCTGGGGTTTCAAACCTTTTAACTCTTGGGAACCTTCCCT
 TTGTGGATTATTTGGCCAAAACACCTTGCGCCAAAACCCCTTGGATCGGGGAAAAA
 ATGGAAGGGA

Restriction Sites:

NotI-NotI

ACCN:

NM_006428

Insert Size:

1220 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:	<u>NM_006428.3, NP_006419.2</u>
RefSeq Size:	1127 bp
RefSeq ORF:	771 bp
Locus ID:	10573
UniProt ID:	<u>Q13084</u>
Cytogenetics:	16p13.3
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, a part of which was originally isolated by its ability to recognize tyrosinase in an HLA-A24-restricted fashion. [provided by RefSeq, Jul 2008]