

Product datasheet for **SC102138**

MRPL47 (BC032522) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL47 (BC032522) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL47
Synonyms:	CGI-204; MGC45403; mitochondrial ribosomal protein L47; nasopharyngeal carcinoma metastasis-related 1; NCM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC032522, the custom clone sequence may differ by one or more nucleotides

ATGGCTGCGGCCGGTTTGGCCCTCTTTGTAGGAGAGTTTCATCCGCCCTGAAATCTTCCCGATCGTTAA
 TAACTCCTCAGGTCCCTGCCTGCACAGGATTACTTCATACCACATTGTCAAGGAAAGGACTAGAAGAATT
 TTTTGATGACCCAAAAAAGTGGGGCAAGAAAAAGTAAATCTGGAGCAGCATGGACCTGTCAGCAACTA
 AGGAACAAAAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAA
 CCCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGATAAGGTAGTAGA
 TTCCATGGATGCATTAGATAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAA
 GAAAGAGCTAGACCTGGTGTGGAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGT
 GGGTTATACCTTGGCACCTAAATAAAGATACAATAGGAAACGATTCTTTGCCTTGCCTTATGTGGACCA
 TTTTCTCAGACTGGAACGTGAGAAACGAGCCCGCATCAAAGCACGGAAGGAAAATTTAGAGAGAAAGAAA
 GCAAAAATTCTTTAAAAAAGTTCCACATCTTGCTGAAGCCCAAAAGTCAAGTCTTGTCTAA


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5' Read Nucleotide Sequence:	>OriGene 5' read for BC032522 unedited <pre> ATTTTGGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCCGGTTTGCCCT TCTTTGTAGGAGAGTTTCATCCGCCCTGAAATCTTCCCGATCGTTAATAACTCCTCAGGT CCCTGCCTGCACAGGGTTTTTCTTAGTTTGTTCCTAAGAGTACACCAAATGTGACATC CTTTCACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGAAGAATTTT TGATGACCCAAAAAAGTGGGGCAAGAAAAAGTAAATCTGGAGCAGCATGGACCTGTCA GCAACTAAGGAACAAAAGTAATGAAGATTACACAACTTTGGTATGTCTTACTGAAAGA AAGAAACATGCTTCTAACCCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAG TCCAGAGCGGTTAGATAAGGTAGTAGATTCCATGGATGCATTAGATAAAGTTGTCCAGGA AAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGACCTGGTGCTTG GAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGTGGGTATACCTTG GCACCTAAATAAAAGATACAATAGGAAACGATTCTTGCCTTGCCTTATGTGGACCATTT TCTCAGGTGAGCACAAGCACCTTAATAAAACATATTATCTTTATACCAGATGACATATG GTCATATATCATACCAGATGACATANAGAAAGCTTAAGCTGTCTTAAATTNTAATTTCT GTTATTACATAAGTATTATAAAAAATAGGAAAGTCAGGCTGGGTNNGCGTGGCTCACACC NTGTATCCCACTCTTTGGGGAGGGCCG </pre>
Restriction Sites:	NotI-NotI
ACCN:	BC032522
Insert Size:	1500 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>BC032522.1</u> , <u>AAH32522.1</u>
RefSeq Size:	1155 bp
RefSeq ORF:	1155 bp
Locus ID:	57129
Cytogenetics:	3q26.33

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. This gene is immediately adjacent to the gene for BAF complex 53 kDa subunit protein a (BAF53a), in a tail-to-tail orientation. Two transcript variants encoding different protein isoforms have been identified. [provided by RefSeq, Jul 2008]