

Product datasheet for **SC105391**

MRPL45 (NM_032351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL45 (NM_032351) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL45
Synonyms:	L45mt; MRP-L45
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032351, the custom clone sequence may differ by one or more nucleotides

ATGGCAGCCCCATACCTCAAGGGTTCTCTGTTTATCGAGGTTTTTGGGCTGGTGGTTTCGGCAGCCAG
TTCTGGTGACTCAGTCCGCAGCTATAGTTCAGTAAGAACTAAAAACGTTTCACACCTCCTATTTATCA
ACCTAAATTTAAACAGAAAAGGAGTTTATGCAACATGCCCGAAAGCAGGATTGGTTATTCCTCCAGAA
AAATCGGACCGTTCCATACATCTGGCCTGTACAGCTGGTATATTTGATGCCTATGTTCTCCTGAGGGTG
ATGCACGCATATCATCTCTTTCAAAGGAGGGACTGATAGAGAGAACTGAACGAATGAAGAAGACTATGGC
ATCACAAGTGCAATCCGGAGGATAAAAGACTATGATGCCAACTTTAAATAAAGGACTTCCTGAAAAA
GCTAAGGATATCTTTATTGAAGCTCACCTTTGTCTAAATAACTCAGACCATGACCGACTTCATACCTTGG
TAACTGAACACTGTTTTCCAGACATGACTTGGGACATCAAATATAAGACCGTCCGCTGGAGCTTTGTGGA
ATCTTTAGAGCCCTCTCATGTTGTTCAAGTTCGCTGTTCAAGTATGATGAACCAGGGCAACGTGTACGGC
CAGATCACCGTACGCATGCACACCCGGCAGACTCTGGCCATCTATGACCGGTTTGGCCGGTTGATGTATG
GACAGGAAGATGTACCAAGGATGTCTGGAGTATGTTGTATTCGAAAAGCAGTTGACAAACCCCTATGG
AAGCTGGAGAATGCATACCAAGATCGTTCCTCCCATGGGCACCCCTAAGCAGCCCATCCTTAAGACGGTG
ATGATCCCTGGCCCTCAGCTGAAACCAGAAGAAGATATGAAGAGGCACAAGGAGAGGCCCAAGAGCCTC
AGCTAGCCTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032351 unedited <pre> TTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGCGGGAAACAAGATGG CAGCCCCCATACCTCAGGGTTCTTGTATTATCGAGGTTTTTGGGCTGGTGGTTTCGGCA GCCAGTTCTGGTACTCAGTCCGCAGCTATAGTTCCAGTAAGAACTAAAAACGTTTCAC ACCTCCTATTTATCAACCTAAATTTAAACAGAAAAGGAGTTTATGCAACATGCCCGGAA AGCAGGATTGGTTATTCCTCCAGAAAAATCGGACCGTTCCATACATCTGGCCTGTACAGC TGGTATATTTGATGCCTATGTTCTCCTGAGGGTGATGCACGCATATCATCTCTTTCAA GGAGGGACTGATAGAGAGAACTGAACGAATGAAGAAGACTATGGCATCACAAGTGTCAAT CCGGAGGATAAAAGACTATGATGCCAACTTTAAATAAAGGACTTCCTGAAAAAGCTAA GGATATCTTTATTGAAGCTCACCTTTGTCTAAATAACTCAGACCATGACCGACTTCATAC CTTGTAAGTGAACACTGTTTTCCAGACATGACTTGGGACATCAAATATAAGACCGTCCG CTGGAGCTNTGTGAATCTTTAGAGCCCTCTCATGTTGTTCAAGTTCGCTGTTCAAGTAT GATGAACCAAGGGCAACGTGTACGGCCAGATCACCGTACGCATGCACACCCGGCAGACTC TGGGCATCTATGACCGGGTTGGCCGGNTGATGTATGGACAGGAAAATGTACCCAGGNATG CCTGAAGTATTGTTGATCGAAAAGCAGTGACCAAACCTATGGAGCTGGAGAAGCTACAA GAACGTTNCCATGGGGACCCCTAGCAGCCATCTTAAGACGGGAAGATCCCTGGCCCTANC TGAACCAGAGAGATTTGAAGAGC </pre>
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032351 unedited <pre> GAACCGCGGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATTATTTCTTTG GATTTATATTTTTCCATAAAATGCAAAATGCTGATTCATCAGTGAGTCAGTATATGAAAA GGGCTCTTAAATGTCTTATAAACACTAATTATTCTTCCCGAGTCTTCATTTCTTAAAG TCACATCGCTCACAAGTAGGCTCATCTTCCACTTCTGCCATCTGAAGGCTGGTCCATGCC CAGCCTGAACCAGGGGAAATGTGCAGAACTCACCAAAATTTTTCCAACACCTGACAACA TTTCATTTCAAACCTGATCCCTGCCCTGTGATTACAAAGAGGATGCTGCTGGTTGTCTC TCACAGTCCCTGCTGTGGGAAAACTGATATCCAATGTTCTCTGAAACATACTGTCTTTC ATCTAGACTCAGAAGCTAGACATAAAATTTAAAAAAGAAGAGTGTCCATGGCCATGTTAT ACCTGCCACCTGCTAGGGCCAGTCATCAGTCATGGTTGCTGATGATGAGACTGCTGAAA AGACCTGAGCAGGATGGGAGAGAAACAAAGGTAGTTCTTTTTATAGCATGAGGGGAATGGG AGACTTCAAAGCTTCCAGCAGCCTCATCACCCAGGCTTCACCCTAGAAGTCATTNTTGTG ATCAGGCTAGCTGAGGCTTCTGGGCTCTCCTTGTGCCTCTTCATATTCTTCTTCTGGTT TCAGCTGAGGGCCAGGGATCATACCGTCTTAAGATGGGCTNGCTAGGGGNNCCCATGGN GGAACGATCTNGTATGCATTCTCCAGCTTCATAGGGGTTGTCAACTGCTTTGAAACACA TACTCAGGAATNCTTGGTACATTNCTGTCTACATAACCGGCAAACCGTATANATGCCA NATCTGCCGGTGTGCATGCCTCGGGATCTGCCGACAGTGGCCTGGTCATCTACTGAACA GGACTTGGACACTGAAAGCTTTAAATCCCAAGCC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032351
Insert Size:	1600 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_032351.3, NP_115727.3</u>
RefSeq Size:	1713 bp
RefSeq ORF:	921 bp
Locus ID:	84311
Cytogenetics:	17q12
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. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 2p and 17q. [provided by RefSeq, May 2013] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).