

Product datasheet for **SC320188**

MRPS7 (NM_015971) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MRPS7 (NM_015971) Human Untagged Clone
Tag: Tag Free
Symbol: MRPS7
Synonyms: bMRP27a; COXPD34; MRP-S; MRP-S7; RP-S7; RPMS7; S7mt
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_015971.2
 GCGACGGATACAGGGAGGCAAGGGTTTCCTTTTGGCGCTTCCCTTTGGACCCCGGAGTG
 AAAAACTCTAACGTCCAGATCAGTGGAGAGAAACGCAGATTTAGGACCCGAGGAGTCTT
 TTTCACCCGTTTTCCCGTCACTCGCTCAGGCGCGCCGAGGGCAGTCCTTGTGGGGTCTCG
 TGGCCAGCCAAGATGGTTGCCCCCGCAGTGAAGGTTGCCGAGGATGGTCGGGCCTGGCG
 TTGGGCGTGCGGCGGGCTGTCTTGACGCTTCCAGGGCTAACTCAGGTGAGATGGAGCCGC
 TATAGTCTGAATTCAAGGATCCCTTGATTGACAAGGAATATTATCGCAAGCCAGTGGAG
 GAGCTAACTGAGGAGGAGAAATATGTTCCGGGAGCTCAAGAAGACTCAGCTCATCAAAGCT
 GCTCCAGCAGGAAAAACAAGTTCTGTGTTGAAGACCCAGTCATCAGTAAATTCACCAAC
 ATGATGATGATAGGAGGAAACAAAGTACTGGCCAGATCCCTCATGATTCAGACTCTGGAA
 GCTGTGAAAAGGAAGCAGTTTGAGAAGTACCATGCCGCTTCTGCAGAGGAACAGGCAACC
 ATCGAACGCAACCCTACACCATCTTCCATCAAGCACTGAAAACTGTGAGCCTATGATT
 GGGCTGGTACCCATCCTCAAGGGAGGCCGTTTTCTACCAGGTCCCTGTACCCCTACCCGAC
 CGGCGTCGCCGCTTCCATAGCCATGAAGTGGATGATCACTGAGTGCCGGGATAAAAAGCAC
 CAGCGGCACTGATGCCGGAGAAGCTGTACACAAGCTGCTGGAGGCTTCCATAACCAG
 GGCCCCGTGATCAAGAGGAAGCATGACTTGACAAGATGGCAGAGGCCAACCGTGCCCTG
 GCCCACTACCGCTGGTGGTAGAGTCTCCAGGAGGAGCCAGGGCCCTCTGCCGAAGAAA
 CAGTGTGAGCTACTGCCACGCTGAAAACTACCTGTGGGTTAAGGATGTAGTTCCCTTTGTA
 AGGGTGGCAGGCTCGTAAGAAAGATGTAGCAGCATATTCATATCCGTTAATCCTTCT
 TTCTTTGAGGCTGGAACCTTCTCTCTGCCCTATTTCCCTTGTAAAGAGGGAGCACATT
 GACTTGGGAATTTCTCCAGGAACTCAGGGCTGTTTTCTCTTCCCTTAGGTTGGGGCGG
 ACCTTTGGACATATAAAGGAAGCAGTTTTAGTATCAGAAAAGATTTATTAGAAAATTCTC
 ACGCTGAACTGGTGTAGCATGTGGTGCAGCATTAGTAACTGGCTGGAGGAAATAGGC
 TTGTTTTCCAGAGTTGTCCTTATACAAAATGTATAAAAAGCAGTTTCTGGTGAAAAAAA
 AAAAAAAAAAAAAA

Restriction Sites: Please inquire



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ACCN:	NM_015971
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_015971.2</u> , <u>NP_057055.1</u>
RefSeq Size:	1393 bp
RefSeq ORF:	729 bp
Locus ID:	51081
UniProt ID:	<u>Q9Y2R9</u>
Cytogenetics:	17q25.1
Domains:	Ribosomal_S7
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 28S subunit protein. In the prokaryotic ribosome, the comparable protein is thought to play an essential role in organizing the 3' domain of the 16 S rRNA in the vicinity of the P- and A-sites. Pseudogenes corresponding to this gene are found on chromosomes 8p and 12p. [provided by RefSeq, Jul 2008]