

Product datasheet for **SC115177**

MRPS28 (NM_014018) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MRPS28 (NM_014018) Human Untagged Clone
Tag: Tag Free
Symbol: MRPS28
Synonyms: COXPD47; HSPC007; MRP-S28; MRP-S35; MRPS35
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_014018 edited
ATGGCGGCGCTGTGTCGGACCCGTGCTGTGGCTGCCGAGAGCCATTTTCTGCGAGTGTTT
CTCTTCTTCAGGCCCTTTCGGGGTGTAGGCACTGAGAGTGGATCCGAAAGTGGTAGTTCC
AATGCCAAGGAGCCTAAGACGCGCGCAGGCGGTTTCGCGAGCGCGTTGGAGCGGCACTCG
GAGCTTCTACAGAAGGTGGAGCCCTACAGAAGGGTTCTCAAAAAATGTGGAATCCTTT
GCATCTATGCTGAGACATTCTCTTACACAGATGGGACCTGCAAAGGATAAACTGGTC
ATTGGACGGATCTTTCATATTGTGGAGAATGATCTGTACATAGATTTTGGTGGAAAGTTT
CATTGTGTATGTAGAAGACCAGAAGTGGATGGAGAGAAAACCAGAAAGGAACCAGGGTC
CGGTTGCGGCTATTAGATCTTGAACCTACGTCTAGGTTCTGGGAGCAACAACAGATACA
ACTGTACTAGAGGCTAATGCAGTTCTCTTGGGAATCCAGGAGAGTAAAGACTCAAGATCG
AAAGAAGAACATCATGAAAAATAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014018 unedited
 NCGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGAAAAAT
 CATGGCGCGCTGTGTCGGACCCGCTGCTGGCTGCCGAGAGCCATTTCTGCGAGTGTT
 TCTCTTTCAGGCCCTTTCGGGGTGTAGGCACTGAGAGTGGATCCGAAAGTGGTAGTTC
 CAATGCCAAGGAGCCTAAGACGCGCGCAGGCGGTTTCGCGAGCGGTTGGAGCGGCACTC
 GGAGCTTCTACAGAAGGTGGAGCCCTACAGAAGGGTTCTCAAAAAATGTGGAATCCTT
 TGCATCTATGCTGAGACATTCTCTCTTACACAGATGGGACCTGCAAAGGATAAACTGGT
 CATTGGACGGATCTTTCATATTGTGGAGAATGATCTGTACATAGATTTTGGTGGAAAGTT
 TCATTGTGTATGTAGAAGACCAGAAGTGGATGGAGAGAAATACCAGAAAGGAACAGGGT
 CCGGTTGCGGCTATTAGATCTTGAACCTACGTCTAGGTTCTGGGAGCAACAACAGATAC
 AACTGTACTAGAGGCTAATGCAGTTCTCTTGGGAATCCAGGAGAGTAAAGACTCAAGATC
 GAAAGAAGAACATCATGAAAAATAAATGAACCTTGTCTTAGTGGATTGACTCCTTTGCTGA
 AGTCAGTTATTCAAGAATGCAATTAGACTAATTGTGAATAAATGATTGAATGAAGAT
 ATAATAAATAAAAGCTATAATTATAGATAACTCTATTAGAAATTTCTTAGCAATATTC
 CCACCCCCACCCCTTNGTTTTGCTCTTAAGGTTTTTTTTCTTTTGGTGGNGGATAGT
 ATACACCTGTAATAANGAAATTGCCATTCATTAATACGTNTTTGAGTGTGTCAAAAA
 AAAAAAAAAAAAACTCGACTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014018 unedited
 TTTGGCCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGACAGCACTCAA
 ACGTATTTATTGAATGACAATTTCTTAGTACAGTGTATACTATCCCCACCAAAGGAAAA
 AACATTAAGAGCAAAAACAAGGGTGGGGTGGGAATATTGCTAAAGAAAATTCTAATAA
 GAGTTATCTATAATTATAGCTTTTATTTATTATATCTTCATTCAATCATTATTACAAT
 TAGTCTAATTGCATTCTTGATGAATAACTGACTTCAGCAAAGGAGTCAATCCACTAAGCA
 AAGTTCATTTATTTTTCATGATGTTCTTCTTTTCGATCTTGAGTCTTTACTCTCCTGGATT
 CCCAAGAGAACTGCATTAGCCTCTAGTACAGTTGTATCTGTTGTTGCTCCCAGGAACCTA
 GACGTAAGTTCAAGATCTAATAGCCGCAACCGACCCCTGGTTCCTTTCTGGTATTTCTCT
 CCATCCACTTCTGGTCTTCTACATACACAATGAACTTTCCACCAAAATCTATGTACAGA
 TCATTCTCCACAATATGAAAGATCCGTCGAATGACCAGTTTATCCTTTGCAGTCCCATC
 TGTGTAAGAGGAGAATGTCTCAGCATAGATGCAAAGGATTCCACATTCTTTGGAGAACC
 TTCTGTAGGGCTCCACCTTCTGTAGAAGCTCCGAGTCCGCTCCAACGCGCTCGCGATA
 CCGNCTGCGCGCTCTTATGCTCCTTGGCATTGGAACCTCCACTTCGATCCACTCTCAG
 TGCTACACCCCGAAAGGCTGAAGAGAGAAACTCCAGAAATGGCTCTCGCAGCCAG
 CACGGNTTCGACCAGCGCCGATGACTCTTCTCGTGCGAATCGCGCCGCCCTTATGAGT
 CGTTTACAAATTTGACGTTCACTAACAGCCTGCTTATAGACTTCCACGTACGCCTACGCC
 ATTTGGTACGGCGGGTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_014018

Insert Size:

850 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:	<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_014018.2</u> , <u>NP_054737.1</u>
RefSeq Size:	724 bp
RefSeq ORF:	564 bp
Locus ID:	28957
UniProt ID:	<u>Q9Y2Q9</u>
Cytogenetics:	8q21.13
Protein Families:	Druggable Genome
Gene Summary:	<p>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 that has been called mitochondrial ribosomal protein S35 in the literature. [provided by RefSeq, Jul 2008]</p>