

## Product datasheet for **SC119441**

### MRPS24 (NM\_032014) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS24 (NM_032014) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS24
Synonyms:	bMRP-47; bMRP47; HSPC335; MRP-S24; S24mt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032014, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGCCTCCGTGTGCAGCGGGTTGCTGGGGCCACGGGTGCTGTCTGGAGCCGAGAGCTGCCTTGCG  
CTTGGCGCGCCTGCACACCTCCCGGTCTGCGCCAAGAACGGGCGGCCGAGTACGCGTAAGCAAGGG  
GGACAAGCCGGTGACCTACGAGGAGGCACACGCGCCGACTACATCGCCACCGTAAAGGCTGGCTGTCG  
CTGCACACAGGTAACCTGGATGGAGAGGACCATGCCGAGAGCGAACGGTGGAGGATGTTTTCTTCGCA  
AGTTTCATGTGGGGTACCTTCCCAGGCTGCCTGGCTGACCAGCTGGTTTTAAAGCGCCGGGTAACCAAGT  
GGAGATCTGTGCCGTGGTCTGAGGCAGTTGTCTCCACACAAGTACTACTTCTCGTGGGCTACAGTGAA  
ACTTTGCTGTCTACTTTTACAAATGTCCTGTGCGACTCCACCTCAAAGTGTGCCCTCAAAGGTTGTGT  
ATAAGTACCTCTAG
```



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032014 unedited  
 NGGTGTCAAATATGTATACGACTACTATAGGCGGCCGGAATCGGCACGAGGCCTCCG  
 TGTGCAGCGGGTTGCTGGGGCCACGGGTGAGTGGGGCGACTCGGCAGGTCCCTGCGAGTC  
 GGAGGTGGGGTCCCTAGTTTCCGCCTCACGCGCCCTCCCTCCACAGGTGCTGTCTGGAG  
 CCGAGAGCTGCCTTGGCCTTGGCGCGCCCTGCACACCTCCCGGTCTGCGCCAAGAACCG  
 GGCGGCCCGAGTACGCGTAAGCAAGGGGACAAGCCGGTGACCTACGAGGAGGCACACGC  
 GCCGCACTACATCGCCACCGTAAGGCTGGCTGTCGCTGCACACAGGTAACCTGGATGG  
 AGAGGACCATGCCGAGAGCGAACGGTGGAGGATGTTTTCTTCGCAAGTTCATGTGGGG  
 TACCTTCCAGGCTGCCTGGCTGACCAGCTGGTTTTAAAGCGCCGGGTAACCAGTTGGA  
 GATCTGTGCCGTGGTCTGAGGCAGTTGTCTCCACACAAGTACTACTTCTCGTGGGCTA  
 CAGTGAACCTTTGCTGTCTACTTTTACAAATGCTGTGCGACTCCACCTCAAACCTGT  
 GCCCTCAAAGTTGTGTATAAGTACCTCTAGAACAATCCCCTTTTTTCCATCAAGCTGTA  
 GCCTGCAGAGAATGGAACGTGGAAAGGAATGGTATGTGGGGAAATGCATCCCCTCAG  
 AGGACTGAGGCATAGTCTCTCATCTGCTATTGAATAAAGACCTTCTATCTTTGAAAAAA  
 AAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGTGTTCCTGAACAGA  
 TCCCGGTTGGCATCCCTGTGACCCTCCCAAGCCTCTCTGGCCCTGGAAGNTGCCACT  
 CCAGTGCCACCAGCCTTGTTCCTATAAAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_032014 unedited  
 NNNTTTAGCTTGNACCCGGCCGATCTANGATCGGTTTTTTTTTTTTTTTTTTTTTACA  
 AGAATAGAAGGTCTTTATTCAATAGCAGATGAGAGACTATGCCTCAGTCTCTGAGGGGA  
 TGCATTTCCCCACATACCATTCTTTCCACGTTTCCATTCTCTGCAGGCTACAGCTTG  
 ATGGAAAAAGGGGATTGTTCTAGAGGTACTTATACACAACCTTTGAGGGCACAGTTTGG  
 AGGTGGAGTCGCACAGGACATTTGTAAGTAGGACAGCAAAGTTTCACTGTAGCCACG  
 AGGAAGTAGTACTTGTGTGGAGACAACCTGCCTCAGGACCACGGCAGATCTCCAACCTGG  
 TTACCCCGGCGCTTTAAACCAGCTGGTCAGCCAGGCAGCCTGGGAAGGTACCCACATG  
 AACTTGCGAAGGAAAACATCCTCCACCCTTTCGCTCTGCGGCATGGTCTCTCCATCCAGG  
 TTACCTGTGTGCAGCGACAGCCAGCCTTTACGGTGGGCGATGTANTGCGGCGCGTGTGCC  
 TCCTCGTAGGTCACCGCTTGTCCCTTGTCTACGCGTACTCGGGCCGCGCGTTCTTG  
 GCGCAACCCGGGAGGTGTGCAGGGCGCCAAAGCGCAAGGCAGTCTCGGTTCCAGGAC  
 AGCACCTGTGGAGGGAGCCGCGTGAGGGCGAAACCAGGGACCCCTCCGACTTCCA  
 GGGACCCGCCGAGTCGCCCAATCACCGTGGCCCCCAACCCCTGCACCCGAGGCC  
 TCCGCCCAATCCCGCCGCCCTTAACGACCCCTATCCCAAAATTCGCCCGGTCCCTTAA  
 CAGCCCTGTTATATAAAACCCACCGTACTTTTTACCTTCCCTTCCCCACCTGTGCGC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_032014

**Insert Size:**

800 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:** [NM\\_032014.1](#), [NP\\_114403.1](#)

**RefSeq Size:** 715 bp

**RefSeq ORF:** 504 bp

**Locus ID:** 64951

**UniProt ID:** [Q96EL2](#)

**Cytogenetics:** 7p13

**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. A pseudogene corresponding to this gene is found on chromosome 11. Read-through transcription exists between this gene and the upstream upregulator of cell proliferation (URGCP) gene. [provided by RefSeq, Mar 2011]