

Product datasheet for **RG236708**

MRPS34 (NM_001300900) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS34 (NM_001300900) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRPS34
Synonyms:	COXPD32; MRP-S12; MRP-S34; MRPS12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236708 representing NM_001300900. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCGCCGCTGCGCGCCCTGCGGGAG
CAACTGAACAGGCCGCGGACTCCAGCTCTACGCGGTGGACTACGAGACCTTGACGCGGCCGTTCTCT
GGACGCCGGTGCCGGTCCGGGCTGGGCCGACGTGCCCGCGAGAGCCGCTCTGCAGCTGCTCGGC
CGCCTCCCGCTCTTCGGCTGGGCCGCTGGTACGCGCAAGTCTGGCTGTGGCAGCACGACGAGCCG
TGCTACTGGCGCCTCACGCGGTGCGGCCGACTACACGGCGCAGAACTTGGACCAGGGAAGGCCTGG
GGCATCCTGACCTCAAAGACGCCTCTTTTCTTCATCAGGGAAGACTGAGAGCGAGGCGCGGGAGATC
GAACACGTGATGTACCATGACTGGCGGCTGGTGCCTAAGCACGAGGAGGAGGCCTTACCCGCTTACG
CCGGCGCCGGAAGACAGCCTGGCCTCCGTGCCGTACCCGCTCTCCTCCGGGCCATGATTATCGCAGAA
CGACAGAAAAATGGAGACACAAGCACCGAGGAGCCATGTGAATGTGCAGAGGATACGCATGGAACCC
TGGGATTACCCTGCAAAACAGGAAGACAAGGAAGGGCCAAGGGCACCCCGTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236708
 Blue=ORF Red=Cloning site Green=Tag(s)

MARKKVRPRLIAELARRVRALREQLNRPDSQLYAVDYETLTRPFSGRRLPVRADVRRESRLQLLGR
 RLPLFGLGRLVTRKSWLWQHDEPCYWRLTRVRPDYTAQNLDHGKAWGILTFKDAFSSSGKTESEAREI
 EHVMYHDWRLVPKHEEEAFTAFTPEDSLASVPYPPLLRAMI AERQKNGDTSTEEPMLNVQIRMEP
 WDYPAKQEDKGRAKGTPV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001300900

ORF Size: 675 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: [NM_001300900.2](#)

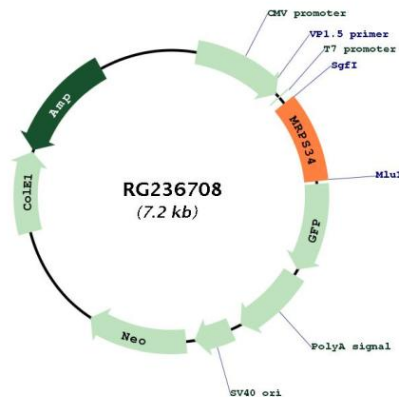
RefSeq Size: 1041 bp

RefSeq ORF: 678 bp

Locus ID: 65993
UniProt ID: [P82930](#)
Cytogenetics: 16p13.3
MW: 26.8 kDa

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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG236708