

Product datasheet for **RG207694**

MRPS15 (NM_031280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS15 (NM_031280) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRPS15
Synonyms:	DC37; MPR-S15; RPMS15; S15mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207694 representing NM_031280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGGTCGCGTGGAGGACGCTGAGTTTGATTTCGGACCCGGGCAGTTACCCAGGTCTAGTACCCG
GGCTGCCGGGCGGTGGGAGCGCCAAGTTTCCTTCAACCAGTGGGGCCTGCAGCCTCGAAGTCTCCTCCT
CCAGGCCGCGCGGATATGTCGTCGGAAACCAGCCAGTCTAGGCTGGATGATGACCCACCTCCTTCT
ACGCTGCTCAAAGACTACCAGAATGTCCCTGGAATTGAGAAGGTTGATGATGTCGTGAAAAGACTCTTGT
CTTTGAAATGGCCAACAAGAAGGAGATGCTAAAAATCAAGCAAGAACAGTTTATGAAGAAGATTGTTGC
AAACCCAGAGGACACCAGATCCCTGGAGGCTCGAATTATGCCTTGTCTGTCAAGATCCGCAGTTATGAA
GAACACTTGAGAAACATCGAAAGGACAAAGCCACAAACGCTATCTGCTAATGAGCATTGACCAGAGGA
AAAAGATGCTCAAAAACCTCCGTAACACCAACTATGATGTCTTTGAGAAGATATGCTGGGGGCTGGGAAT
TGAGTACACCTTCCCCCTCTGTATTACCGAAGAGCCACCGCGATTTCGTGACCAAGAAGGCTCTGTGC
ATTCGGTTTTCCAGGAGACTCAAAGCTGAAGAAGCGAAGAAGAGCCTTAAAGGCTGCAGCAGCAGCCC
AAAAACAAGCAAAGCGGAGGAACCCAGACAGCCCTGCCAAAGCCATACCAAAGACTCAAAGACAGCCA
A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207694 representing NM_031280
 Red=Cloning site Green=Tags(s)

MLRVAVRTL^{SL}IRTRAVTQVLVPGLPGGSAKFPFNQWGLQPRLLLLQAARGYVVRKPAQSRLDDDDPPPS
 TLLKDYQNVPGIEKVDDVVKRLLSLEMANKKEMLKIKQEQFMKKIVANPEDTRSLEARIIALSVKIRSYE
 EHLEKHRKDKAHKRYLLMSIDQRKKMLKNLRNTNYDVFEKICWGLGIEYTFPPLYRRAHRRFVTKKALC
 IRVFQETQKLKRRRRALKAAAAAQKQAKRRRNPDSPAKAI^{PKTL}KDSQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031280

ORF Size: 771 bp

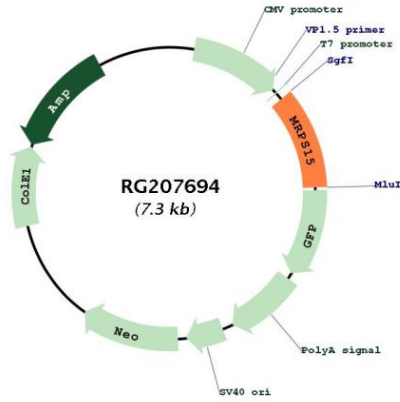
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_031280.2 , NP_112570.2
RefSeq Size:	891 bp
RefSeq ORF:	774 bp
Locus ID:	64960
UniProt ID:	P82914
Cytogenetics:	1p34.3
Domains:	Ribosomal_S15
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 belongs to the ribosomal protein S15P family. The encoded protein is more than two times the size of its E. coli counterpart, with the 12S rRNA binding sites conserved. Between human and mouse, the encoded protein is the least conserved among small subunit ribosomal proteins. Pseudogenes corresponding to this gene are found on chromosomes 15q and 19q. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG207694