

Product datasheet for **RG205632**

MRPS35 (NM_021821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MRPS35
Synonyms:	HDCMD1IP; MDS023; MRP-S28; MRPS28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205632 representing NM_021821
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCCGCGCTCCAGCATGGCTGTCTGTCAGTCGAGGCAAGGACTCTGCGTGCATTCTCCA
CTGCCGTCTACTCGCCACTCCGGTCCCGACACCTAGCCTGCCGGAAGAACACCCGAAATGAAAGGCC
ACCAAGAAGAAAGGCACTACCTCCTAGGACAGAGAAAATGGCTGTTGACCAGGACTGGCCTAGTGTTTAC
CCAGTTGCAGCACCATTAAACCTCTGCAGTACCTCTTCTGTTGCAATGGGTTATCCAGTAAAAAAGG
GCGTGCCCATGGCAAAGGAGGAAATCTAGAAGCTTTTAAAGATTCCCAATTTTCTGCATTTGACTCCTGT
AGCAATTAAGCACTGTGAAGCCCTTAAAGATTTTGCAGTGAAGTGGCCAGCCGCACTGGACAGTGAC
GAGAAATGTGAGAAGCATTTTCAATTGAAATTGACAGCACTGATTATGTTTCATCAGGACCATCTGTTT
GGAACCCAGAGCAGGAGTAGTCTTAAGAGTAAAGCTTCCAGTTTGAATTTAGATGATCAGCAAA
GAAGAAATTAATTAAGTGTAGGAGAGCGATACTGCAAGACCACAGATGTGCTTACCATCAAAACAGAT
AGGTGCCCTTTAAGGAGGCAGAAATACGATTATGCAGTGTATCTACTAACAGTGTATACCATGAGTCTT
GGAATACTGAAGATGGGAAAAAGTAAGACTGAAGCAGACATGGAAGAGTATATATGGGAAATAGCTC
ATCAGAAAGAAATATCTGGAAACGCTTCTCCAGATGAAAGCTGCTGAGAAAAATATGGAATAAATAAA
GAAGAGCTCCTTGGTACTAAAGAAATTGAAGAGTACAAAAAGTCTGTTGTTAGTCTTAAAAATGAGGAGG
AAAATGAAATTCATTCTCAGTACAAAGAAATCCGTGAAGAGACTATTAATGTGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG205632 representing NM_021821
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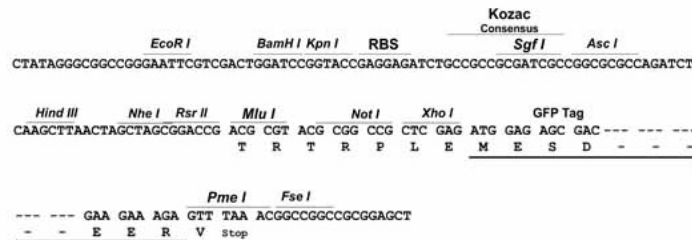
MAAAALPAWLSLQSRARTLRAFSTAVYSATPVPTPSLPERTPGNERPPRRKALPPRTEKMAVDQDWPSVY
PVAAPFKPSAVPLPVRMGYPVKKGVPMAKEGNLELLKIPNHLTPVAIKKHCEALKDFCTEWPAAALDSD
EKCEKHFPIDSTDYVSSGSPVRNPRARVVLRVKLSSLNDDHAKKKLIKLVGERYCKTTDVLTIKTD
RCPLRRQNYDYAVYLLTVLYHESWNTTEWEKSKTEADMEEYIWENSSSERNILETLLQMKAAEKNMEINK
EELLGTKEIEEYKKSIVSLKNEEENENSISQYKESVKRLNVT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_021821

ORF Size: 969 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:	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:	<u>NM_021821.4</u>
RefSeq Size:	1878 bp
RefSeq ORF:	972 bp
Locus ID:	60488
UniProt ID:	<u>P82673</u>
Cytogenetics:	12p11.22
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 that has had confusing nomenclature in the literature. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Pseudogenes corresponding to this gene are found on chromosomes 3p, 5q, and 10q. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RG205632