

Product datasheet for **RN203609**

Myg1 (NM_001005545) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Myg1 (NM_001005545) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Myg1 |
| Synonyms: | C12orf10 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >RN203609 representing NM_001005545 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTAGAGGGTTCCTGCGAGGAGTCTTAACACTGTTGCCGCTCCGGTCAGTTCTCCAAGTCCAGCACT
GCATGCTTGTCTCGGAGCCGATCTGCCCCCTAAAAGACCTCGCAACAACCTCATGGCACCGCCCGAAT
CGGGACGCACAACGGCACCTTCCACTGCGATGAGGCTCTGGCTTGCGCATTGCTCCGCTACTGCCCGAG
TACAGGAATGCAGAGATTGTGCGGACTCGGGATCCTGAAAACTGGCTTTGTGTGACATCGTGGTGGATG
TGGGTGGTGAACAACCTCAGAGACACCGTTATGATCATCACCAGAGGACTTTTACAGAAACCATGAG
TTCTTGTGCCCTGGGAAGCCATGGCAGACCAAGTTGAGCAGTGGGGACTTGTCTATCTGCACTTTGGG
CATAAGCTCCTGGCCAGTTGCTGGGCACTAGTGAAGAGGACAGCGTGGTGGACACCATCTATGACAAGA
TGTACGAGAACTTTGTGGAAGAGGTGGATGCTGTGGACAATGGGATCTCTCAGTGGGAGAGGGGGAGCC
TCGCTATGCACTGACCACTACACTGAGTGGCCGGGTTTCTCGCCTTAATCCCACCTGGAACCAGCCTGAC
CAAGACTGAGGAGGATTGAGGCGTGGATGGACCTGGTGAAGAGGAGTTTCTGAAAGACTAACT
TCTACCAGCACAGCTGGCTGCCAGCCGGGCTTGGTAGAGGAGGCCCTGGCCAGAGATTCAAGGTAGA
CTCAAGTGGGAGATAGTGAACCTGCAAAGGGCGGATGCCCTTGAAGGAGCATCTGTACCACCTAGAA
CTGAGCTGTCTCCACAGTAGCCATCACCTTTGTTATCTACACTGACCAGGCTGGACAGTGGCGAGTCC
AGTGTGTGCCCAAGGAGCCTCACTCATTCCAAAGCCGGCTGCCCTGCCGAGCCATGGCGGGACTTCG
GGATGAGGCCCTGGACCAAGTCAGTGGGATCCCTGGTTGCATCTTCGTCATGCCAGTGGCTTCATTGGT
GGGCACCACACTCGAGAGGGTGCCTGAACATGGCCCGTCCACCTTGCCAGCGCACAGCACCTGTAC
CTTTGCAAATGCTGTAGTCCAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_001005545 |
| Insert Size: | 1146 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_001005545.1</u> , <u>NP_001005545.1</u> |
| RefSeq Size: | 1207 bp |
| RefSeq ORF: | 1146 bp |
| Locus ID: | 300258 |
| UniProt ID: | <u>Q641W2</u> |
| Cytogenetics: | 7q36 |
| Gene Summary: | 3'-5' RNA exonuclease which cleaves in situ on specific transcripts in both nucleus and mitochondrion. Involved in regulating spatially segregated organellar RNA processing, acts as a coordinator of nucleo-mitochondrial crosstalk. In nucleolus, processes pre-ribosomal RNA involved in ribosome assembly and alters cytoplasmic translation. In mitochondrial matrix, processes 3'-termini of the mito-ribosomal and messenger RNAs and controls translation of mitochondrial proteins.[UniProtKB/Swiss-Prot Function] |