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Product datasheet for MR205927

Myg1 (NM_021713) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myg1 (NM_021713) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myg1
Synonyms:	0610023A07Rik; 2810433J21Rik; 5830429P19Rik; AI325965; Gamm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205927 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTAGACGTTTCCTGCGTGGTATCTTAACTTTGCCGCTCCGGTCAGTTCTCCAAGCCCAGCACCGCA
TGCTTGGCTCAGAGCAGGATCCGCCCGCTAAAAGACTTCGCAACAACCTCATGGCACCGCCCCGAATCGG
GACGCACAACGGCACCTTCCACTGCGATGAAGCTCTGGCTTGCGCGTTGCTCCGCCTCCTGCCCGAGTAC
GCGAACGCAGAGATTGTGCGGACTCGGGATCCTGAAAAGTTGGCTTCGTGTGACATCGTGGTGGATGTGG
GCGGTGAGTACAACCCCCAGAGTCACCGTTATGATCATCACCAGAGGACTTTTACAGAAACCATGAGTTC
ACTGTGCCCTGGAAAGCCATGGCAGACCAAGCTGAGCAGTGCGGGACTTGTCTATTTGCACTTCGGACGT
AAGCTCCTGGCCCAGTTGCTGGGCACTAGTGAAGAGGACAGCGTGGTGGATACCATCTATGACAAGATGT
ATGAGAACTTTGTGGAAGAGGTGGATGCGGTGGACAATGGGATCTCTCAGTGGGCAGAGGGGGAGCCTCT
GTATGCAATGACCACCACACTGAGTGCCCGGGTTGCTCGGCTTAATCCCACCTGGAACCAGCCCAACCAA
GACACTGAGGCAGGGTTCAGGCGAGCAATGGACCTGGTACAAGAGGAGTTTCTGCAAAGACTAAACTTCT
ACCAGCACAGCTGGCTGCCAGCCCGGGCCTTAGTAGAGGAGGCACTGGCCCAGAGATTCAAGGTAGATTC
AAGTGGGGAAATAGTGGAACTCGCAAAAGGTGGATGCCCTTGGAAGGAGCATCTATACCACCTAGAATCT
GAGCTGTCCCCCAAAGTGGCCATTACCTTTGTTATCTACACTGACCAGGCTGGACAGTGGCGAGTCCAGT
GCGTACCCAAGGAGCCTCACTCATTCCAAAGCCGGCTACCCTTGCCCGAGCCATGGAGAGGACTTCGGGA
TAAGGCCCTGGACCAAGTCAGTGGGATCCCTGGTTGCATCTTCGTCCATGCCAGTGGCTTCATTGGTGGG
CACCACACTCGAGAGGGTGCCCTGAACATGGCCCGTGCCACCCTTGCCCAGCGCCCAGCACCTGTGCCTC
TTGCAAATGCTGTAGTCCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

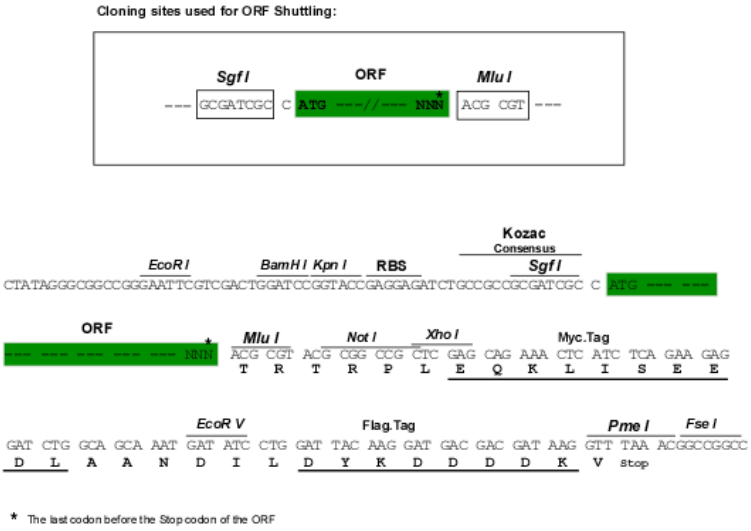
>MR205927 protein sequence
Red=Cloning site Green=Tags(s)

MGRRFLRGILTLPLRSVLQAQHRMLGSEQDPPAKRLRNNLMAPPRIGTHNGTFHCDEALACALLRLLPEY
ANAEIVRTRDPEKLASCDIVVDVGGEYNPQSHRYDHHQRTFTETMSSLCPGKPWQTKLSSAGLVYLHFGR
KLLAQLLGTSEEDSVVDTIYDKMYENFVEEVDAVDNGISQWAEGEPLYAMTTTLSARVARLNPTWNQPNQ
DTEAGFRRAMDLVQEEFLQRLNFYQHSWLPARALVEEALAQRFKVDSSGEIVELAKGGCPWKEHLYHLES
ELSPKVAITFVIYTDQAGQWRVQCVPKEPHSFQSRLPLPEPWRGLRDKALDQVSGIPGCIFVHASGFIGG
HHTREGALNMARATLAQRPAPVPLANAVVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021713

ORF Size: 1143 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.

RefSeq: NM_021713.1, NM_021713.2, NP_068359.1

RefSeq Size: 1480 bp

RefSeq ORF: 1143 bp

Locus ID: 60315

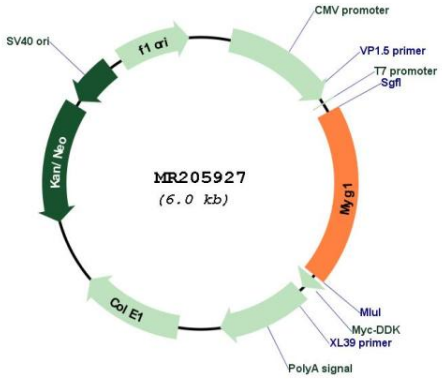
UniProt ID: Q9JK81

Cytogenetics: 15 F3

MW: 42.7 kDa

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 (PubMed:31081026). 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 (PubMed:31081026).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205927