

Product datasheet for **SC122912**

MYG1 (NM_021640) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYG1 (NM_021640) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYG1
Synonyms:	C12orf10; Gamm1; MST024; MSTP024; MYG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_021640 edited

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GGGACTGCGTGCATGCCTCCGGGGTGGATGGCATTCCGCCAACAGGGTCACTCCGA
TAGCGCCCGGCAGCCCAAGCACCTTCTACCTTCCCTGCCTGAAGTCCAGCATT
ATCCCCTACCCGGCGACACCCGGCAGCCCTTCACCCCTGTGTACCTCGCAGGATGCAGA
GATTGTGCGGACCCGGGATCCCGAAAACTCGCTTCTGTGACATCGTGGTGGACGTGGG
GGGCGAGTACGACCCTCGGAGACACCGATATGACCATCACCAGAGGTCTTTCACAGAGAC
CATGAGCTCCCTGTCCCCTGGGAAGCCGTGGCAGACCAAGCTGAGCAGTGCAGGACTCAT
CTATCTGCACTTCGGGCACAAGCTGCTGGCCAGTTGCTGGGCACTAGTGAAGAGGACAG
CATGGTGGGCACCCTCTATGACAAGATGTATGAGAACTTTGTGGAGGAGGTGGATGCTGT
GGACAATGGGATCTCCAGTGGCAGAGGGGAGCCTCGATATGCACTGACCACTACCCT
GAGTGCACGAGTTGCTCGACTTAATCCTACCTGGAACACCCCGACCAAGACACTGAGGC
AGGGTTCAAGCGTGCAATGGATCTGGTTCAAGAGGAGTTTCTGCAGAGATTAGATTCTA
CCAACACAGCTGGCTGCCAGCCCGGGCCTTGGTGAAGAGGCCCTTGCCAGCGATTCCA
GGTGGACCAAGTGGAGAGATTGTGGAAGTGGCGAAAGGTGCATGTCCCTGGAAGGAGCA
TCTCTACCACCTGGAATCTGGGCTGTCCCTCCAGTGGCCATCTCTTTGTTATCTACAC
TGACCAGGCTGGACAGTGGCGAATACAGTGTGTGCCAAGGAGCCCCACTATTCCAAAG
CCGGCTGCCCCTGCCAGAGCCATGGCGGGGTCTTCGGGACGAGGCCCTGGACCAGGTCAG
TGGGATCCCTGGCTGCATCTTCGTCCATGCAAGCGGCTTCATTGGCGGTACCGCACCCG
AGAGGGTGCCTTGAGCATGGCCCGTGCCACCTTGGCCAGCGCTCATACCTCCCAAAAT
CTCCTAGTCTAATAAAACCTTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_021640 unedited <pre> GTACAAAATTTGTAATACGACTCACTATAGGCGGCACGCAATCCCGGGATATCGTCGAC CCACGCGTCCGGGGACTGCGTGCATGCATGCCTCCGGGGTGGATGGCATTCCGCCAACAG GGTCACTCCGATAGCGCCCGGCAGCCCAAGCACCTTCTACCCTTCTGCCTCCCTGAA GTCCAGCATTATCCCTACCCGGCGACACCCGGCAGCCCTTCACCCCTGTGTACCTCG CAAGATGCAGAGATTGTGCGGACCCGGGATCCCGAAAACTCGCTTCTGTGACATCGTG GTGGACGTGGGGGGCGAGTACGACCTCGGAGACACCGATATGACCATCACCAGAGGTCT TTCACAGAGACCATGAGCTCCCTGTCCCTGGGAAGCCGTGGCAGACCAAGCTGAGCAGT GCGGGACTCATCTATCTGCACTTCGGGCACAAGCTGCTGGCCAGTTGCTGGGCACTAGT GAAGAGGACAGCATGGTGGGCACCCTCTATGACAAGATGTATGAGAACTTTGTGGAGGAG GTGGATGCTGTGGACAATGGGATCTCCAGTGGGCAGAGGGGAGCCTCGATATGCACTG ACCACTACCTGAGTGCACGAGTTGCTCGACTTAATCCTACCTGGAACCAACCCGACCAA GACACTGAGGCAGGGTTCAAGCGTGCAATGGATCTGGTTCAAGAGGAGTTTCTGCAGAGA TTAGATTTCTACCAACACAGCTGGCTGCCAGCCAGGCCTTGGTGAAGATGCCCTTGCC CAGCGATTCCCCAGTGGACCCAGTGGAGAGATTGTGGAAGTGGCGAAAGTGCATGTCCCT GGAAGGACATCTCTACCCTGAATCTGGGCTGNTCCCTCAGTGGCATCTTCTTGTATCT AACTGACCAGCTGGACATGCGATACAGTTGTGC </pre>
Restriction Sites:	Please inquire
ACCN:	NM_021640
Insert Size:	1183 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:	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_021640.2 , NP_067653.2
RefSeq Size:	1215 bp
RefSeq ORF:	1131 bp
Locus ID:	60314
UniProt ID:	Q86UA3
Cytogenetics:	12q13.13

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 (Probable).[UniProtKB/Swiss-Prot Function]