

Product datasheet for **RG208753**

Myogenin (MYOG) (NM_002479) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myogenin (MYOG) (NM_002479) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myogenin
Synonyms:	bHLHc3; myf-4; MYF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208753 representing NM_002479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGTATGAGACATCCCCCTACTTCTACCAGGAACCCCGTTCTATGATGGGGAAAACCTACCTGC
CTGTCCACCTCCAGGGCTTCGAACCACCAGGCTACGAGCGGACGGAGCTCACCTGAGCCCCGAGGCCCC
AGGGCCCTTGAGGACAAGGGGCTGGGGACCCCGAGCACTGTCCAGGCCAGTGCCTGCCGTGGCGTGT
AAGGTGTGAAGAGGAAGTCGGTGTCCGTGGACCGCGGGCGGCCACACTGAGGGAGAAGCGCAGGC
TCAAGAAGGTGAATGAGGCCTTCGAGGCCCTGAAGAGAAGCACCTGCTCAACCCCAACCAGCGGCTGCC
CAAGGTGGAGATCCTGCGCAGTGCCATCCAGTACATCGAGCGCCTCCAGGCCCTGCTCAGCTCCCTCAAC
CAGGAGGAGCGTGACCTCCGCTACCGGGCGGGGCGGGCCCCAGCCAGGGGTGCCAGGGAATGCAGCT
CTCACAGCGCCTCCTGCAGTCCAGAGTGGGGCAGTGCCTGGAGTTCAGCGCCAACCCAGGGGATCATCT
GCTCACGGCTGACCTACAGATGCCACAACCTGCACTCCCTCACCTCCATCGTGGACAGCATCACAGTG
GAAGATGTGTCTGTGGCCTTCCCAGATGAAACCATGCCAAC

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208753 representing NM_002479
 Red=Cloning site Green=Tags(s)

MELYETSPYFYQEPRFYDGENYLPVHLQGFEPGGYERTELTLSP EAPGPLEDKGLGTPEHCPGQCLPWAC
 KVCKRKSVSVD RRRRAATLREKRRLLKKVNEAFEALKRSTLLNPNQRLPKVEILRSATIQYIERLQALLSSLN
 QEERDLRYRGGGPGQPGVPSECSHSSASCSP EWGSALEFSANPGDHL LTADPTDAHNLHSLTSIVDSITV
 EDVSVAFPD ETPMN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002479

ORF Size: 672 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: [NM_002479.6](#)

RefSeq Size: 1530 bp

RefSeq ORF: 675 bp

Locus ID: 4656

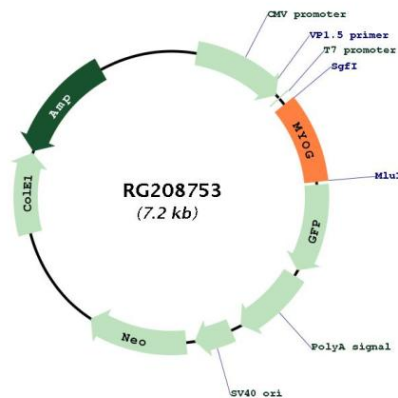
UniProt ID: [P15173](#)

Cytogenetics: 1q32.1

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: Myogenin is a muscle-specific transcription factor that can induce myogenesis in a variety of cell types in tissue culture. It is a member of a large family of proteins related by sequence homology, the helix-loop-helix (HLH) proteins. It is essential for the development of functional skeletal muscle. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208753