

## 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  
AAGGTGTGTAAGAGGAAGTCGGTGTCCGTGGACC GGCGGGCGGCCACACTGAGGGAGAAGCGCAGGC  
TCAAGAAGGTGAATGAGGCCTTCGAGGCCCTGAAGAGAAGCACCTGCTCAACCCCAACCAGCGGCTGCC  
CAAGGTGGAGATCCTGCGCAGTGCCATCCAGTACATCGAGCGCCTCCAGGCCCTGCTCAGCTCCCTCAAC  
CAGGAGGAGCGTGACCTCCGCTACCGGGCGGGGGCGGGCCCCAGCCAGGGGTGCCAGGGAATGCAGCT  
CTCACAGCGCCTCCTGCAGTCCAGAGTGGGGCAGTGCAGTGGAGTTCAGCGCCAACCCAGGGGATCATCT  
GCTCACGGCTGACCTACAGATGCCACAACCTGCACTCCCTCACCTCCATCGTGGACAGCATCACAGTG  
GAAGATGTGTCTGTGGCCTTCCCAGATGAAACCATGCCCAAC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208753 representing NM\_002479  
 Red=Cloning site Green=Tags(s)

MELYETSPYFYQEPRFYDGENYLPVHLQGFEPGVERTELTLSP EAPGPLEDKGLGTPEHCPGQCLPWAC  
 KVCKRKSVSVD RRRRAATLREKRRLLKVVNEAFEALKRSTLLNPNQRLPKVEILRSATQYIERLQALLSSLN  
 QEERDLRYRGGGPGQPGVPSECSSHSASCSP 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.

**RefSeq:** [NM\\_002479.6](#)

**RefSeq Size:** 1530 bp

**RefSeq ORF:** 675 bp

**Locus ID:** 4656

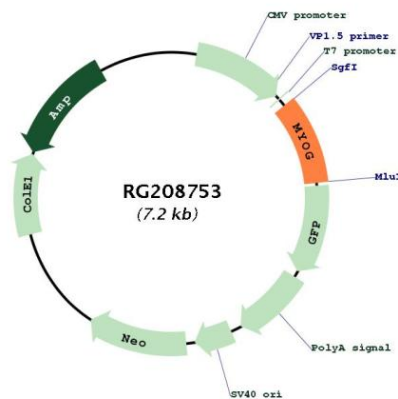
**UniProt ID:** [P15173](#)

**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