

Product datasheet for **RG210156**

MYF5 (NM_005593) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYF5 (NM_005593) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MYF5
Synonyms:	bHLHc2; EORVA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210156 representing NM_005593 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGTGATGGATGGCTGTCAGTTCTCACCTTCTGAGTACTTCTACGACGGCTCCTGCATACCGTCCC
CCGAGGGTGAATTTGGGGACGAGTTTGTGCCGCGAGTGGCTGCCTTCGGAGCGCACAAAGCAGAGCTGCA
GGGCTCAGATGAGGACGAGCACGTGCGAGCGCCTACCGGCCACCACCAGGCTGGTCACTGCCTCATGTGG
GCCTGCAAAGCCTGCAAGAGGAAGTCCACCACCATGGATCGCGGAAGGCAGCCACTATGCGCGAGCGGA
GGCGCCTGAAGAAGGTCAACCAGGCTTTCGAAACCCTCAAGAGGTGTACCACGACCAACCCCAACCAGAG
GCTGCCCAAGGTGGAGATCCTCAGGAATGCCATCCGCTACATCGAGAGCCTGCAGGAGTTGCTGAGAGAG
CAGGTGGAGAACTACTATAGCCTGCCGGGACAGAGCTGCTCGGAGCCCACCAGCCCCACCTCCAAGTCT
CTGATGGCATGCCGAATGTAACAGTCTGTCTGGTCCAGAAAGAGCAGTACTTTTGACAGCATCTACTG
TCCTGATGTATCAAATGTATATGCCACAGATAAAAACCTCTTATCCAGCTTGGATTGCTTATCCAACATA
GTGGACCGGATCACCTCCTCAGAGCAACCTGGGTTGCCTCAGGATCTGGCTTCTCTCTCCAGTTG
CCAGCACCGATTACAGCCTGCAACTCCAGGGGCTTAGTTCAGGCTTATCTATCATGTGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210156 representing NM_005593
Red=Cloning site Green=Tags(s)

MDVMDGCQFSPSEYFYDGCIPSPGEGFGDEFVPRVAAFGAHKAEIQGSDDEHVRAPTGHHQAGHCLMW
 ACKACKRRKSTTMDRRKAATMRERRRLKKNQAFETLKRCTTTNPNQRLPKVEILRNAIRYIESLQELLRE
 QVENYYSLPGQSCSEPTSPNSDCSDGMPECNSPVWSRKSSTFDSIYCPDVSNNVYATDKNSLSSLDCLSN
 VDRITSSEQPLPLQDLASLSPVASTDSQPATPGASSSRLIYHVL

TRTRPLE - GFP Tag - V

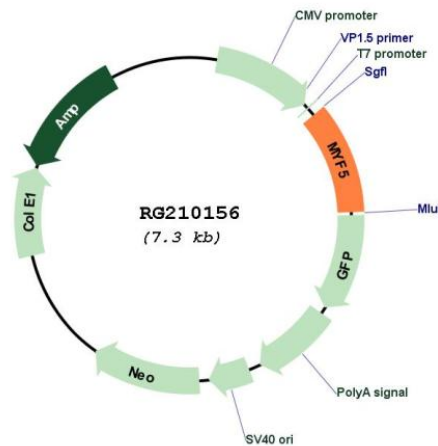
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_005593

ORF Size: 765 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:	<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:	NM_005593.1 , NP_005584.1
RefSeq Size:	1427 bp
RefSeq ORF:	768 bp
Locus ID:	4617
UniProt ID:	P13349
Cytogenetics:	12q21.31
Domains:	HLH, Basic
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	Transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation (PubMed:29887215). Together with MYOG and MYOD1, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. Probable sequence specific DNA-binding protein. [UniProtKB/Swiss-Prot Function]