

Product datasheet for **RC208753**

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:	Myc-DDK
Symbol:	Myogenin
Synonyms:	bHLHc3; myf-4; MYF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208753 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGTATGAGACATCCCCCTACTTCTACCAGGAACCCCGTTCTATGATGGGGAAAACCTACCTGC
CTGTCCACCTCCAGGGCTTCGAACCACCAGGCTACGAGCGGACGGAGCTCACCTGAGCCCCGAGGCCCC
AGGGCCCCTTGAGGACAAGGGGTGGGGACCCCGAGCACTGTCCAGGCCAGTGCCTGCCGTGGGCGTGT
AAGGTGTGTAAGAGGAAGTCGGTGTCCGTGGACCGCGGGCGGCCACACTGAGGGAGAAGCGCAGGC
TCAAGAAGGTGAATGAGGCCTTCGAGGCCCTGAAGAGAAGCACCTGCTCAACCCCAACCAGCGGCTGCC
CAAGGTGGAGATCCTGCGCAGTGCCATCCAGTACATCGAGCGCCTCCAGGCCCTGCTCAGCTCCCTCAAC
CAGGAGGAGCGTGACCTCCGCTACCGGGCGGGGCGGGCCCCAGCCAGGGGTGCCAGGGAATGCAGCT
CTCACAGCGCCTCCTGCAGTCCAGAGTGGGGCAGTGCCTGGAGTTCAGCGCCAACCCAGGGGATCATCT
GCTCACGGCTGACCCTACAGATGCCACAACCTGCACTCCCTCACCTCCATCGTGGACAGCATCACAGTG
GAAGATGTGTCTGTGGCCTTCCCAGATGAAACCATGCCAAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208753 protein sequence
 Red=Cloning site Green=Tags(s)

MELYETSPYFYQEPRFYDGENYLPVHLQGFEPGGYERTELTLSPEAPGPLEDKGLGTPEHCPGQCLPWAC
 KVCKRKSVSVD RRRAATLRKRRLLKKVNEAFEALKRSTLLNPNQRLPKVEILRSATIQYIERLQALLSSLN
 QEERDLRYRGGGGPQGPVSECSHSSASCSPEWGSALEFSANPGDHLTADPTDAHNHLSLTSIVDSITV
 EDVSVAFPDETMPN

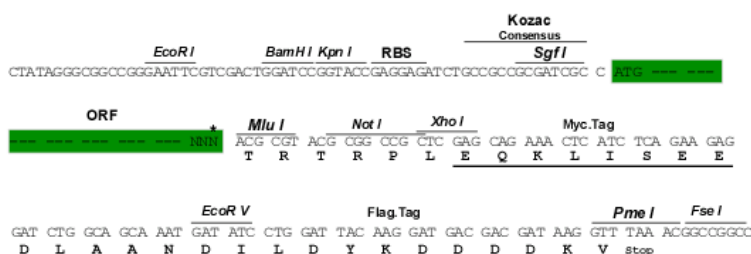
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6126_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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: 1576 bp

RefSeq ORF: 675 bp

Locus ID: 4656

UniProt ID: [P15173](#)

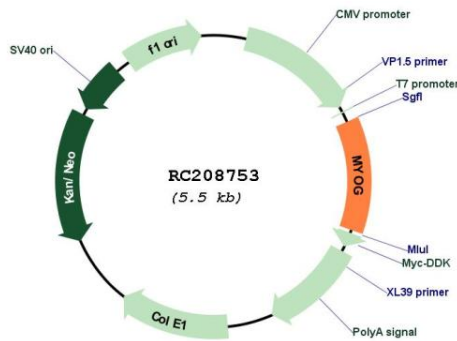
Cytogenetics: 1q32.1

Protein Families: Druggable Genome, Transcription Factors

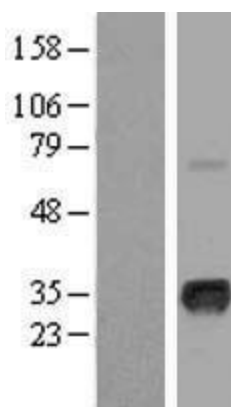
MW: 25 kDa

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 RC208753



Western blot validation of overexpression lysate (Cat# [LY400882]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208753 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).