OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC204705

MYF6 (NM_002469) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYF6 (NM_002469) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYF6
Synonyms:	bHLHc4; CNM3; MRF4; myf-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204705 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGATGGACCTTTTTGAAACTGGCTCCTATTTCTTCTACTTGGATGGGGAAAATGTTACTCTGCAGC
CATTAGAAGTGGCAGAAGGCTCTCCTTTGTATCCAGGGAGTGATGGTACCTTGTCCCCCTGCCAGGACCA
AATGCCCCCGGAAGCGGGGAGCGACAGCAGCGGAGAGGAACATGTCCTGGCGCCCCCGGGCCTGCAGCCT
CCACACTGCCCCGGCCAGTGTCTGATCTGGGCTTGCAAGACCTGCAAGAGAAAATCTGCCCCCACTGACC
GGCGAAAAGCCGCCACCCTGCGCGAAAGGAGGAGGCTAAAGAAAATCAACGAGGCCTTCGAGGCACTGAA
GCGGCGAACTGTGGCCAACCCCAACCAGAGGCTGCCCAAGGTGGAGATTCTGCGGAGCGCCATCAGCTAT
ATTGAGCGGCTGCAGGACCTGCTGCACCGGCTGGATCAGCAGGAGAAGATGCAGGAGCTGGGGGTGGACC
CCTTCAGCTACAGACCCAAACAAGAAAATCTTGAGGGTGCGGATTTCCTGCGCACCTGCAGCTCCCAGTG
GCCAAGTGTTTCCGATCATTCCAGGGGGCTCGTGATAACGGCTAAGGAAGGAGGAGCAAGTATTGATTCG
TCAGCCTCGAGTAGCCTTCGATGCCTTTCTTCCATCGTGGACAGTATTTCCTCGGAGGAACGCAAACTCC
CCTGCGTGGAGGAAGTGGTGGAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

Protein Sequence:

>RC204705 protein sequence
Red=Cloning site Green=Tags(s)

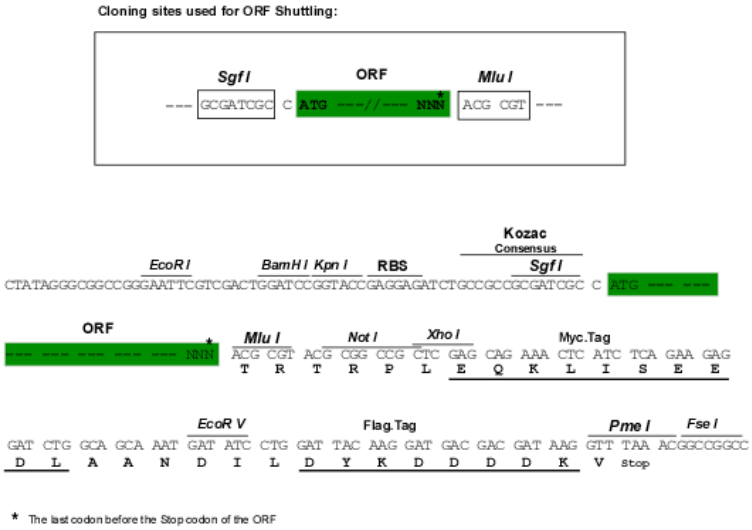
MMMDLFETGSYFFYLDGENVTLQPLEVAEGSPLYPGSDGTLSPCQDQMPPEAGSDSSGEEHVLAPPGLQP
PHCPGQCLIWACKTCKRKSAPTDRRKAATLRERRRLKKINEAFEALKRRTVANPNQRLPKVEILRSAISY
IERLQDLLHRLDQQEKMQELGVDPFSYRPKQENLEGADFLRTCSSQWPSVSDHSRGLVITAKEGGASIDS
SASSSLRCLSSIVDSISSEERKLPCVEEVVEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6171_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002469

ORF Size: 726 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

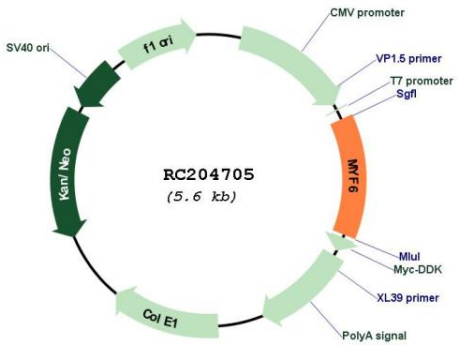
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

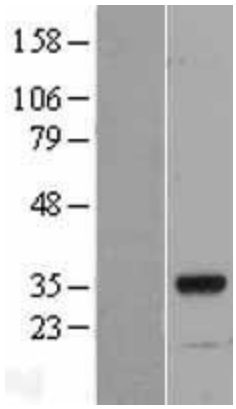
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_002469.3
RefSeq Size:	1342 bp
RefSeq ORF:	729 bp
Locus ID:	4618
UniProt ID:	P23409
Cytogenetics:	12q21.31
Protein Families:	Druggable Genome, Transcription Factors
MW:	27 kDa
Gene Summary:	The protein encoded by this gene is a probable basic helix-loop-helix (bHLH) DNA binding protein involved in muscle differentiation. The encoded protein likely acts as a heterodimer with another bHLH protein. Defects in this gene are a cause of autosomal dominant centronuclear myopathy (ADCNM). [provided by RefSeq, May 2010]

Product images:



Circular map for RC204705

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Western blot validation of overexpression lysate (Cat# [LY400878]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204705 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US