

Product datasheet for **MR222107**

Myf6 (NM_008657) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myf6 (NM_008657) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myf6
Synonyms:	bHLHc4; herculin; MRF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222107 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGATGGACCTTTTTGAACTGGCTCCTATTTCTTCTACTTAGATGGAGAAAATGTGACTCTTCAGC
CATTAGAAGTGGCAGAGGGCTCTCCTTTGTATCCAGGGAGTGATGGTACCCTATCCCCTTGCCAGGACCA
AATGCCCCAGGAAGCCGGGAGCGACAGCAGTGGAGAGGAACACGTTCTGGCTCCCCAGGCCTGCAGCCT
CCCCACTGCCCTGGCCAGTGTCTGATCTGGGCTTGCAAGACTTGAAGAGAAAATCTGCCCCACAGATC
GTCGAAAAGCAGTACCCTGCGCAAAGGAGGAGACTAAAGAAAATCAACGAAGCCTTTGAGGCCCTGAA
GGTCCGACTGTGGCCAACCCCAACCAGAGACTGCCAAGGTGGAGATTCTGCGGAGTGCCATCAGCTAC
ATTGAGCGTCTACAGGACCTGCTGCACCGCTGGATCAGCAAGAGAAGATGCAGGAGCTGGGCGTGGACC
CCTACAGCTACAAACCAAGCAAGAAATTTCTGAGGGTGGGATTTCTGCGCACCTGCAGCCCCAGTG
GCCAAGTGTTCGGATCATTCCAGGGCCCTCGTGATAACTGCTAAGGAAGGAGGACAAACGTGGATGCC
TCAGCCTCCAGCAGTCTTCAGCGCCTTTCTCCATCGTGGACAGTATTTCTTCAGAGGAACGCAAACCTCC
CCAGCGTGGAGGAGGTGGTGGAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222107 protein sequence
 Red=Cloning site Green=Tags(s)

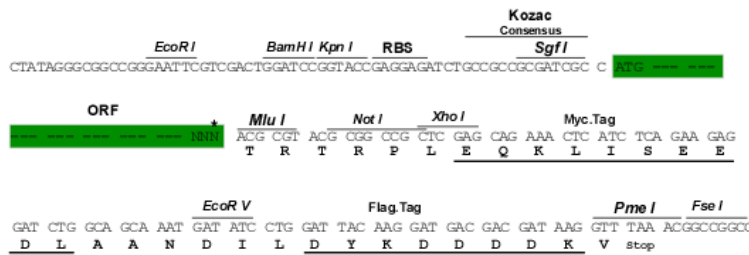
MMMDLFETGSYFFYLDGENVTLQPLEVAEGSPLYPGSDGTLSPCQDQMPQEAGSDSSGEEHVLAPPGLQP
 PHCPGQCLIWACKTCKRKSAPTRRRKAATLRERRRLKKINEAFEALKRRTVANPNQRLPKVEILRS AISY
 IERLQDLLHRLDQQEKMQELGVDPYSPKPKQEILEGADFLRTCSPQWPSVSDHSRGLVITAKEGGANVDA
 SASSSLQRLSSIVDSISSEERKLPSVEEVVEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008657

ORF Size: 729 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_008657.3](#)

RefSeq Size: 1248 bp

RefSeq ORF: 729 bp

Locus ID: 17878

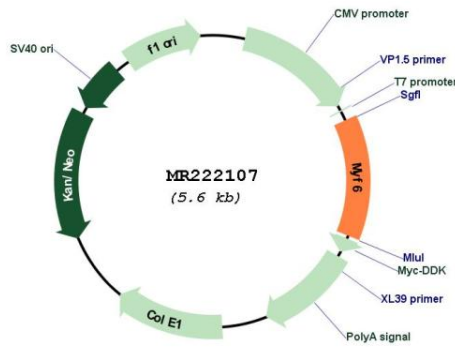
UniProt ID: [P15375](#)

Cytogenetics: 10 55.96 cM

MW: 27 kDa

Gene Summary: Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Probable sequence specific DNA-binding protein.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222107