

Product datasheet for MR222142

MyI1 (NM_001113387) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MyI1 (NM_001113387) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: MyI1
Synonyms: AI325107; D12Mgi4; MLC1; MLC1f; MLC3; MLC3f; MyI; MyIf
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR222142 representing NM_001113387
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCTTCAGTGCTGACCAGATTGCCGACTTCAAGGAGGCATTTCTCCTGTTTGACAGAACAGGTGAAT
GCAAGATCACCTTAAGTCAGGTGGGAGACGTCTCCGGGCTCTGGGCACCAATCCCACCAATGCAGAGGT
CAAGAAGTTCTTGGGAACCCAGCAATGAAGAGATGAATGCTAAGAAAATCGAGTTTGAACAGTTTCTG
CCCATGATGCAAGCTATCTCCAACAACAAGGACCAGGGAGGTTATGAAGATTTTCGTTGAGGGTCTGCGTG
TCTTCGACAAGGAGGGCAATGGCACCGTCATGGGTGCTGAACTCCGCCATGTCCTCGCCACTCTGGGAGA
GAAGATGAAGGAGGAAGAGGTAGAAGCGTTGCTGGCAGGCCAGGAGGACTCCAATGGCTGCATCAACTAT
GAAGCTTTGTCAAACACATCATGTCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222142 representing NM_001113387
Red=Cloning site Green=Tags(s)
MSFSADQIADFKEAFLLFDRTGECKITLSQVGDVLRALGTNPTNAEVKKVLGNPSNEEMNAKKIEFEQFL
PMMQAIISNNKDQGGYEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMKEEVEALLAGQEDSNGCIN
EAFVKHIMSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

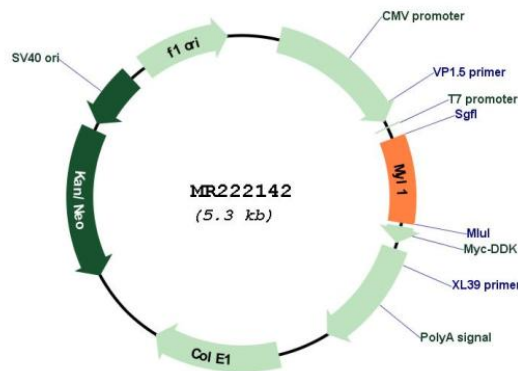
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001113387

ORF Size: 450 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:	<u>NM_001113387.1</u> , <u>NP_001106858.1</u>
RefSeq Size:	826 bp
RefSeq ORF:	453 bp
Locus ID:	17901
UniProt ID:	<u>P05977</u>
Cytogenetics:	1 33.71 cM
MW:	17 kDa
Gene Summary:	Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two non-phosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain expressed in fast skeletal muscle. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]