

Product datasheet for **MG201506**

Myl7 (NM_022879) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myl7 (NM_022879) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Myl7
Synonyms: MLC-2alpha; MLC2a; MYL2A; Mylc2a; RLC-A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201506 representing NM_022879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGTAGGAAGGCTGGGACCCGAGGCAAGGCTGCAGCCACCAAGCAGGCACAACGTGGCTCTTCTA
 ATGTCTTCTCAATGTTCTGAACAAGCCAGATTCAGGAATCAAGGAAGCCTTCAGCTGCATTGACCAGAA
 CAGGGATGGGATCATCTGCAATCAGACCTGAAGGAGACCTATCCAGCTCGGGAGGGTAAGTGTCCG
 GAGGAAGAGCTGGACCCATGCTGCAGGAAGGGAAGGGTCCCATCAACTCACCGTCTTCTCACACTCT
 TCGGGGAGAAGCTCAATGGGACGGACCCGAGGAAGCCATCCTGAGTGCCTTCCGCATGTTGACCCAG
 CGGCCAGGGGTGGTGAACAAGGAAGAGTTCAAGCAGCTTCTCATGACCCAGGCAGACAAGTTCTCTCT
 GCTGAGGTAGAGCAACTGTTTGCCTGACACCCATGGACCTGGCCGGCAACATTGACTACAAGTCTCTCT
 GCTACATCATACCCACGGGGATGAGAAAGAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201506 representing NM_022879
 Red=Cloning site Green=Tags(s)

MASRKAGTRGKAAATKQQRGSSNVFSMFEQAQIQEFKEAFSCIDQNRDGIICKSDLKETYSQLGRVSV
 EEELDAMLQEGKGPINFTVFLTLFGEKLNQTDPEEAILSAFRMFDPSGQGVVNKEEFKQLLMTQADKFS
 AEVEQLFALTPMDLAGNIDYKSLCYIITHGDEKEE

TRTRPLE - GFP Tag - V

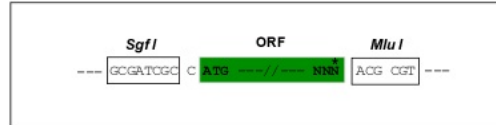
Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

SgfI Asc I

EcoR I BamH I Kpn I RBS

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCSGATCGCCGGCGCCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - - -

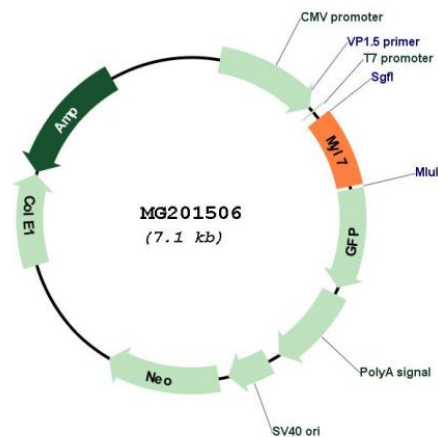
T R T R P L E M E S D - - -

Pme I Fse I

--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM_022879

ORF Size: 525 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_022879.2</u> , <u>NP_075017.2</u>
RefSeq Size:	599 bp
RefSeq ORF:	528 bp
Locus ID:	17898
UniProt ID:	<u>Q9QVP4</u>
Cytogenetics:	11 3.88 cM