

Product datasheet for **RG203081**

fast skeletal Myosin (MYLPF) (NM_013292) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: fast skeletal Myosin (MYLPF) (NM_013292) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: fast skeletal Myosin
Synonyms: HUMMLC2B; MLC2B; MRLC2; MYL11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203081 representing NM_013292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACCCAAGAGGGCCAAGAGAAGGACAGTAGAGGGCGGAAGCTCCAGCGTCTTCTCCATGTTTCGACC
 AGACTCAGATCCAGGAGTTCAAAGAGGCCCTTCACTGTGATCGACCAGAACCCTGATGGTATTATAGACAA
 GGAGGACCTTCGGGACACCTTCGCAGCCATGGGCCGCTCAATGTGAAGAATGAGGAGTTGGATGCCATG
 ATGAAGGAAGCCAGCGGTCCCATCAACTCACCGTCTTCTGACCATGTTCCGGGAGAAGCTCAAGGGTG
 CCGACCCTGAGGATGTGATCACCGGAGCCTTCAAGGTCTTGGACCCTGAGGAAAGGGCACCATCAAGAA
 GAAGTTCCTGGAGGAGCTGCTGACCACGAGTGTGACCGTCTCCAGGAGGAGATCAAGAACATGTGG
 GCGGCCTTCCCCCGACGTGGGCGCAACGTCGACTACAAAACATCTGCTACGTCATCACGCACGGCG
 ACGCCAAGGACCAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203081 representing NM_013292
 Red=Cloning site Green=Tags(s)

MAPKRAKRRTVEGSSSVFSMFDQTIQEFKEAFTVIDQNRDGIIDKEDLRDTFAAMGRLNVKNEELDAM
 MKEASGPINFTVFLTMFGEKLGADPEDVITGAFKVLDPGEGKTIKKKFLLELLTTQCDRFSQEEIKNMW
 AAFPPDVGGNVYKNICYVITHGDAKDQE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_013292

ORF Size: 507 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_013292.5](#)

RefSeq Size: 687 bp

RefSeq ORF: 510 bp

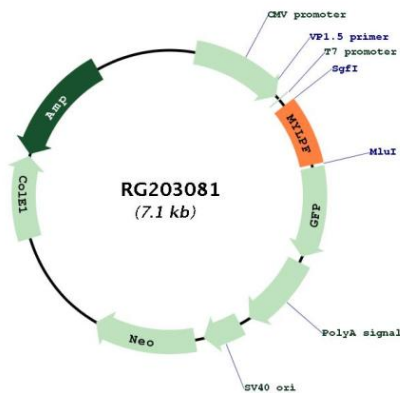
Locus ID: 29895

UniProt ID: [Q96A32](#)

Cytogenetics: 16p11.2

Protein Pathways: Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction

Product images:



Circular map for RG203081