

Product datasheet for RC203122

Myosin light chain 3 (MYL3) (NM_000258) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myosin light chain 3 (MYL3) (NM_000258) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Myosin light chain 3
Synonyms: CMH8; MLC-IV/sb; MLC15B; MLC1V; VLC1; VLCL
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203122 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCAAAAGCCAGAGCCCAAGAAGGATGATGCCAAGGCAGCCCCAAGGCAGCTCCAGCTCCCG
 CACCTCCCCTGAGCCTGAGCGCCCTAAGGAGGTCGAGTTTGTGCTTCCAAGATCAAGATTGAGTTCAC
 ACCTGAGCAGATTGAAGAGTTCAAGGAAGCCTTCATGCTGTTCCGACCGCACACCAAGTGTGAGATGAAG
 ATCACCTACGGGCAGTGTGGGATGTCTCGGGCGCTGGCCAGAACCACACAGGCAGAAGTGTCTCC
 GTGTCCTGGGAAGCCAAGACAGGAAGAGCTCAATACCAAGATGATGGACTTTGAACTTCTCTGCCTAT
 GCTCCAGCACATTTCCAAGAACAAGGACACAGGCACCTATGAGGACTTCGTGGAGGGGCTGCGGGTCTTC
 GACAAGGAGGGCAATGGCACTGTGATGGGTGCTGAGCTTCGCCACGTGCTGGCCACGCTGGGTGAGAGGC
 TGACAGAAGACGAAGTGGAGAAGTTGATGGCTGGCAAGAGGACTCCAATGGCTGCATCAACTATGAAGC
 ATTTGTGAAGCACATCATGTCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203122 protein sequence
 Red=Cloning site Green=Tags(s)

MAPKKPEPKDDAKAAPKAAPAPAPPPEPERPKEVEFDASKIKIEFTPEQIEEFKEAFMLFDRTPKCEMK
 IITYGQCGDVLRALGQNPTQAEVLRVLGKPRQEELNTKMMDFETFLPMLQHISKNKDTGTVEYDFVEGLRVF
 DKEGNGTVMGAELRHVLATLGERL TEDEVEKLMAGQEDSNGCINYEAFVKHIMSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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_000258.3](#)

RefSeq Size: 942 bp

RefSeq ORF: 588 bp

Locus ID: 4634

UniProt ID: [P08590](#)

Cytogenetics: 3p21.31

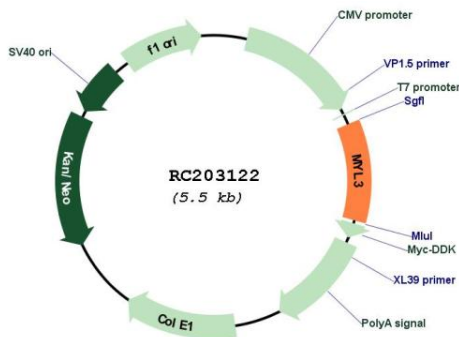
Protein Families: Druggable Genome

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

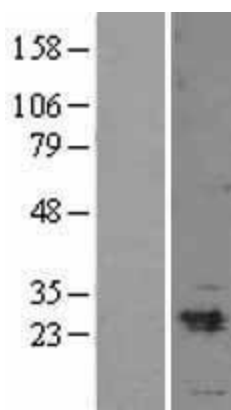
MW: 21.9 kDa

Gene Summary: MYL3 encodes myosin light chain 3, an alkali light chain also referred to in the literature as both the ventricular isoform and the slow skeletal muscle isoform. Mutations in MYL3 have been identified as a cause of mid-left ventricular chamber type hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]

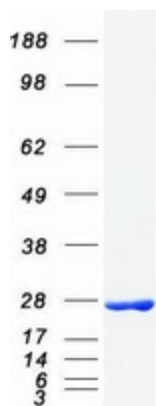
Product images:



Circular map for RC203122



Western blot validation of overexpression lysate (Cat# [LY400098]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203122 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYL3 protein (Cat# [TP303122]). The protein was produced from HEK293T cells transfected with MYL3 cDNA clone (Cat# RC203122) using MegaTran 2.0 (Cat# [TT210002]).