

## Product datasheet for RC220970

### MYH13 (NM\_003802) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MYH13 (NM\_003802) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MYH13  
**Synonyms:** MyHC-eo; MyHC-IIL  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC220970 representing NM\_003802  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCTCTGACGCAGAAATGGCCATTTTTGGAGAAGCAGCTCCCTACCTCCGAAACCAGAGAAGGAGA  
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TTCAACCACCACATGTTCTGCTGGAGCAGGAAGAGTACAAGAAGGAAGGCATCGAGTGGGAGTTTCATTG  
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**Protein Sequence:**

>RC220970 representing NM\_003802  
 Red=Cloning site Green=Tags(s)

MSSDAEMAI FGEAAPYL RKP EKERIEAQNRP FDSK KACFVADNKEMYVKGMIQTRENDKVI VKTLD DRML  
 TLNNDQV FPMNPK FDKIEDMAMMTHLHEPAVL YNLKERYAAWMIYYSGLFCVT VNPYKWL PVYKPEVV  
 AAYRGGKRQEAPPHIFSI SDNAYQFML TDRDNQSILITG ESGAGKTVNTRKVIQYFATI AVTGDKKKETQ  
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 GLIKSKILLEAKVKELTERLEEEEMNSELVAKKRNL EDKCSSLKRIDDEL TLTKVEKEKHATENKVK  
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 KSDLQVALEEEVEGSLEHEESKILRVQLEL SQVKSELDRKVI EKDEEIEQLKRNSQRAAEALQSVLDAEIR  
 SRNDALRLKKKMEGDLNEMEIQLGHSNRQMAETQKHLRTVQGQLKDSQLHLDDALRSNEDLKEQLAIVER  
 RNLG LLEEL EEMKVALEQTERRLSEQELLDASDRVQLLH SQNTSLINTKKKLEADIAQCQAEVENS IQ  
 ESRNAEEKAKKAITDAAMMAEELKKEQD TSAHLERMKNLEQTVKDLQHRLDEAEQLALGGKKQIQKLE  
 NRVRELENELDVEQKRGAEALKG AHKYERKVKEMTYQAEEDHKNILRLQDLVDKLQAKVKS YKRAEEAE  
 EQANTQLSR CRRVQHELEEAERADIAESQVNKLR AKSRDVG SQMEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8042\\_b05.zip](https://cdn.origene.com/chromatograms/mk8042_b05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_003802

**ORF Size:** 5814 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\\_003802.3](#)

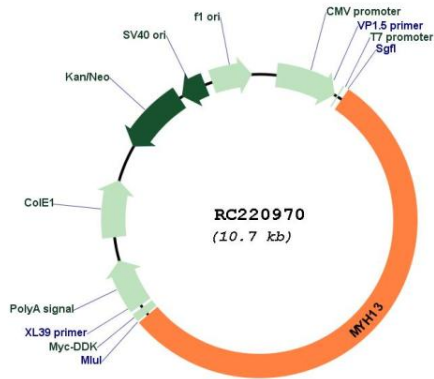
**RefSeq Size:** 5992 bp

**RefSeq ORF:** 5817 bp

**Locus ID:** 8735

**UniProt ID:** Q9UKX3  
**Cytogenetics:** 17p13.1  
**Protein Pathways:** Tight junction, Viral myocarditis  
**MW:** 223.4 kDa  
**Gene Summary:** Fast twitching myosin mediating the high-velocity and low-tension contractions of specific striated muscles.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC220970