

Product datasheet for RC223377

MURF3 (TRIM54) (NM_187841) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MURF3 (TRIM54) (NM_187841) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MURF3
Synonyms:	MURF; MURF-3; muRF3; RNF30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223377 representing NM_187841 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCACAGTGGGTTTCAAGCCGCTGCTAGGGGATGCACACAGCATGGACAACCTGGAGAAGCAGC
TCATCTGCCCCATCTGCCTGGAGATGTTCTCAAACCAGTGGTGATCCTGCCCTGCCAACACAACCTGTG
CCGAAATGTGCCAACGACGCTTCCAGGCCTCGAATCCTCTATGGCAGTCCCGGGGCTCCACCACTGTG
TCTTCAGGAGGCCGTTCCGCTGCCATCGTGCAGGCATGAGGTTGTCTGGACAGACACGGTGTCTACG
GCCTGCAGCGAAACCTGCTAGTGGAGAACATTATCGACATTTACAAGCAGGAGTCATCCAGGCCGCTGCA
CTCCAAGGCTGAGCAGCACCTCATGTGCGAGGAGCATGAAGAAGAGAAGTCAATATTTACTGCCTGAGC
TGTGAGGTGCCACCTGCTCTCTGCAAGGTCTTCGGTCCCCACAAGGACTGTGAGGTGGCCCCACTGC
CCACCATTTACAAACGCCAGAAGAGTGAGCTCAGCGATGGCATCGCGATGCTGGTGGCAGGCAATGACCG
CGTGCAAGCAGTGATCACACAGATGGAGGAGGTGTGCCAGACTATCGAGGACAATAGCCGGAGGCAGAAG
CAGTTGTTAAACCAGAGGTTTGAGAGCCTGTGCGCAGTGTGGAGGAGCGCAAGGGTGGAGCTGTGCAGG
CGCTGGCCCGGGAGCAAGAGGAGAAGCTGCAGCGCGTCCGCGGCCTATCCGTAGTATGGCGACCACCT
GGAGGCCCTCCTAAGCTGGTGGAGTCTGCCATCCAGTCCATGGAAGAGCCACAATGGCGCTGTATCTC
CAGCAGGCCAAGGAGCTGATCAATAAGGTGGGGCCATGTCGAAGGTGGAGCTGGCAGGGCCGGGAGC
CAGGCTATGAGAGCATGGAGCAATTCACCGTAAGGGTGGAGCACGTGGCCGAAATGCTGCGGACCATCGA
CTTCCAGCCAGGCGCTTCCGGGGAGGAAGAGGAGGTGGCCCCAGACGGAGAGGAGGGCAGCGGGGCCG
GAGGAAGAGCGGCCGGATGGGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC223377 representing NM_187841
Red=Cloning site Green=Tags(s)

MNFTVGFKPLLGDAHSMNLEKQLICPICLEMFSKPVVILPCQHNLCRKCANDVFQASNPLWQSRGSTTV
 SSGGRFRCPSCRHEVVLDHRHGVYGLQRNLLVENIIDIKQESSRPLHSAEQHLMCEEHEEEKINITYCLS
 CEVPTCSLCKVFGAHKDCEVAPLPTIYKRQKSELSDGIAMLVAGNDRVQAVITQMEEVCQTIEDNSRRQK
 QLLNQRFESLCAVLEERKGELLQALAREQEEKLQRVVIRQYGDHLEASSKLVESAIQSMEEPQMALYL
 QQAKELINKVGAMSKVELAGRPEPGYESMEQFTVVRVHVAEMLRTIDFQPGASGEEEEVAPDGEESGAGP
 EERPDGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8054_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_187841

ORF Size: 1074 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_187841.3](#)

RefSeq Size: 1644 bp

RefSeq ORF: 1077 bp

Locus ID: 57159

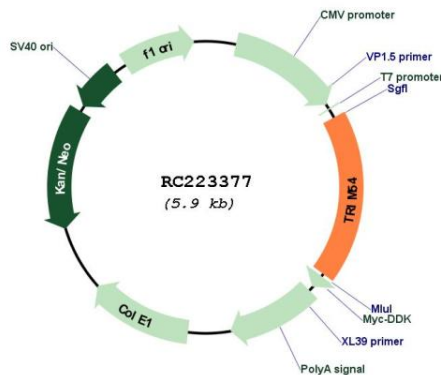
UniProt ID: [Q9BYV2](#)

Cytogenetics: 2p23.3

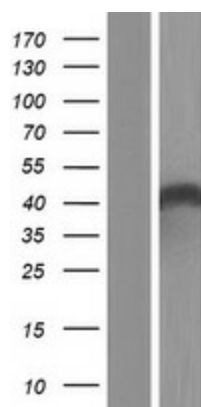
MW: 40.1 kDa

Gene Summary: The protein encoded by this gene contains a RING finger motif and is highly similar to the ring finger proteins RNF28/MURF1 and RNF29/MURF2. In vitro studies demonstrated that this protein, RNF28, and RNF29 form heterodimers, which may be important for the regulation of titin kinase and microtubule-dependent signal pathways in striated muscles. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223377



Western blot validation of overexpression lysate (Cat# [LY405178]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223377 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).