

## Product datasheet for RC218075

### MURF3 (TRIM54) (NM\_032546) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MURF3 (TRIM54) (NM_032546) 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:	>RC218075 representing NM_032546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACTTCACAGTGGGTTTCAAGCCGCTGCTAGGGGATGCACACAGCATGGACAACCTGGAGAAGCAGC  
TCATCTGCCCCATCTGCCTGGAGATGTTCTCAAACCAGTGGTGATCCTGCCCTGCCAACACAACCTGTG  
CCGAAATGTGCCAACGACGCTTCCAGGCCTCGAATCCTCTATGGCAGTCCCGGGGCTCCACCACTGTG  
TCTTCAGGAGGCCGTTTCCGCTGCCATCGTGCAGGCATGAGGTTGTCTGGACAGACACGGTGTCTACG  
GCCTGCAGCGAAACCTGCTAGTGGAGAACATTATCGACATTTACAAGCAGGAGTCATCCAGGCCGCTGCA  
CTCCAAGGCTGAGCAGCACCTCATGTGCGAGGAGCATGAAGAAGAGAAGATCAATATTTACTGCCTGAGC  
TGTGAGGTGCCACCTGCTCTCTGCAAGGTCTTCGGTGCCCAAGGACTGTGAGGTGGCCCCACTGC  
CCACCATTTACAAACGCCAGAAGAAACAGGATCTCACTCTGTTGCCAGGCTGGAGTGCAGTGGCAGAAA  
CACAACCTACTGCAGCCTTGATCTCCCGAGCTCAAGTGATCCTCCCATCTTAGCCTCGCAGAACACTAAG  
ATTATAGATAGTGAAGTGCAGGATGGCATCGCGATGCTGGTGGCAGGCAATGACCGCGTGAAGCAGTGA  
TCACACAGATGGAGGAGGTGTGCCAGACTATCGAGGACAATAGCCGGAGGCAGAACAGTGTGTTAAACCA  
GAGGTTTGAGAGCCTGTGCGCAGTGTGGAGGAGCGCAAGGTTGAGCTGCTGCAGGCGCTGGCCCCGGGAG  
CAAGAGGAGAAGCTGCAGCGCTCCGCGCCCTCATCCGTCAGTATGGCGACCACCTGGAGGCTCCTCTA  
AGCTGGTGGAGTCTGCCATCCAGTCCATGGAAGAGCCACAAATGGCGCTGTATCTCCAGCAGGCCAAGGA  
GCTGATCAATAAGGTCGGGGCCATGTGCAAGGTGGAGCTGGCAGGGCGGGCCGAGCCAGGCTATGAGAGC  
ATGGAGCAATTCACCGTAAGGTTGGAGCAGTGGCCGAAATGCTGCGGACCATCGACTTCCAGCCAGGCG  
CTTCCGGGGAGGAAGAGGAGGTGGCCCCAGACGGAGAGGAGGCGAGCGGGGCCGAGGAAGAGCGGCC  
GGATGGGCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC218075 representing NM\_032546  
Red=Cloning site Green=Tags(s)

MNFTVGFKPLLGDHSMNDLEKQLICPICLEMFSKPVVILPCQHNLCRKCANDVFQASNPLWQSRGSTTV  
 SSGGRFRCPSCRHEVVLDHRHGVYGLQRNLLVENIIDIKQESSRPLHSAEQHLMCEEHEEEKINIYCLS  
 CEVPTCSLCKVFGAHKDCEVAPLPTIYKRQKKQDLTLLPRLECSGTNTTYCSLDLPSSSDPPILASQNTK  
 IIDSELSDGIAMLVAGNDRVQAVITQMEEVCQTIEDNSRRQKQLLNQRFESLCAVLEERKGELLQALARE  
 QEEKLQVRGLIRQYGDHLEASSKLVESAIQSMEEPQMALYLQQAQKELINKVGAMSKVELAGRPEPGYES  
 MEQFTVRVEHVAEMLRTIDFQPGASGEEEEVAPDGEESGAPPEEERPDGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6114\\_a07.zip](https://cdn.origene.com/chromatograms/mk6114_a07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_032546

**ORF Size:** 1200 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\\_032546.4](#)

**RefSeq Size:** 1770 bp

**RefSeq ORF:** 1203 bp

**Locus ID:** 57159

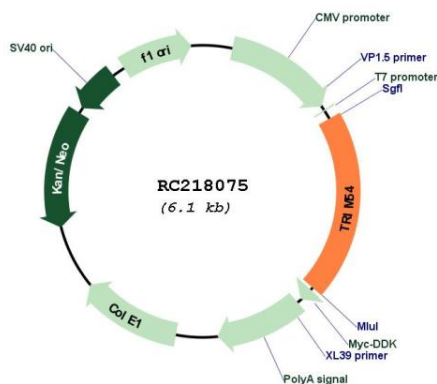
**UniProt ID:** [Q9BYV2](#)

**Cytogenetics:** 2p23.3

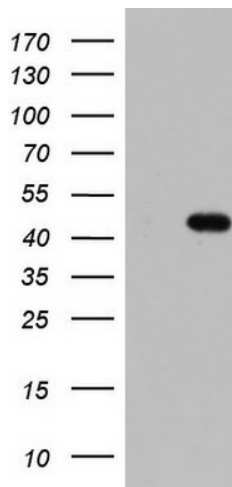
**MW:** 44.7 kDa

**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]

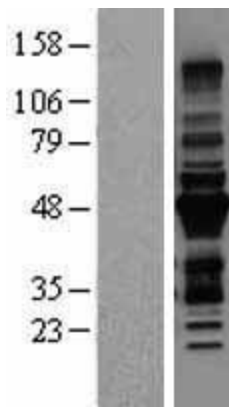
### Product images:



Circular map for RC218075



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TRIM54 (Cat# RC218075, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TRIM54 (Cat# [TA803871]). Positive lysates [LY403171] (100ug) and [LC403171] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403171]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218075 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).