

Product datasheet for **MG223178**

Trim54 (NM_021447) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim54 (NM_021447) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trim54
Synonyms:	4930486E09Rik; 4930566I02Rik; MURF; MURF-3; MuRF3; Rnf30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223178 representing NM_021447 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCTCACGGTGGGTTTCAAGCCGCTGCTAGGGGATGCGCACAAATGGACAACCTGGAGAAGCAGC
TCATTTGCCCCATCTGCCTGGAGATGTTCTCCAAGCCCGTGGTATCTTGCCCTGCCAACACAACCTGTG
CCGCAAGTGTCCAACGACGCTTCCAGGCCTCTAATCCTCTGTGGCAATCCCGGGCTCCACAACGGT
TCTTCAGGAGGACGTTTCCGATGCCATCTGTAGGCACGAGGTTGTCTGGACAGGCATGGTGTCTATG
GCCTGCAGCGGAACCTGCTAGTGGAGAACATCATTGACATCTACAAGCAGGAGTCTCCCGCCACTGCA
CGCAAGGCTGAACAGCACCTCATGTGTGAGGAGCACGAGGACGAGAAGTCAACATCTACTGCCTGAGC
TGCGAGGTGCCACCTGCTCTCTGCAAGTTTTTCGGCGCCCAAGGACTGTGAGGTGGCCCTCTGC
CCACCATTTACAAACGCCAGAAGAGTGAGCTGAGCGATGGCATCGCGATGCTGGTGGCGGCAATGACCG
TGTGCAGGCAGTGATCACCCAGATGGAGGAGGTGTGCCAGACCATTGAGGACAACAGCCGACAGAGAAG
CAACTGTTAAACCAGAGGTTTCGAGACCTGTGCGCGTTTTGGAGGAGCGCAAGGGCAACTGCTTCAAG
CACTGGCCCGGGAGCAGGAGGAGAAGTTGCAGCGCTGCGGGCCTCATCCGCCAGTACGGAGACCACTT
GGAGGGCTCCTCAAAGCTGGTGGAGTCCGCCATCCAGTCCATGGAGGAGCCGAGATGGCTCTCTACCTC
CAGCAGGCAAAGGAGCTGATCAACAAGTTCGGGCAATGTCGAAGGTGGAGCTGGCAGGACGGCCGGGAG
CAGGCTATGAGAGCATGGAGCAATTCTCTGTGAGCGTGGAGCACGTGGCCGAAATGTTGCGAACCATCGA
CTTCCAGCCGGCGCGCTGGGGATGAAGAGGATGACGACATGGCTTTGGATGGGAGGAGGGCAATGCG
GGGCTGGAGGAGGAGCGCTGGACGTGCCAGAAGGCTCAGGCCTGCAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223178 representing NM_021447
 Red=Cloning site Green=Tags(s)

MNFTVGFKPLLGDahnMDNLEKQLICPICLEMFSKPVVILPCQHNLCRKCANDVFQASNPLWQSRGSTTV
 SSGGRFRCPSCRHEVVLDRHGVYGLQRNLLVENIIDIKQESSRPLHAKAEQHLMCEEHEDEKINITYCLS
 CEVPTCSLCKVFGAHKDCVAPLPTIYKRQKSELSDGIAMLVAGNDRVQAVITQMEEVCQTIEDNSRRQK
 QLLNQRFETLCAVLEERKGELLQALAREQEEKLQRVRGLIRQYGDHLEGSSKLVESAIQSMEEPQMALYL
 QQAKELINKVGMASKVELAGRPEPGYESMEQFSVSVHVAEMLRTIDFQPGAAGDEEDDDMALDGEEGNA
 GLEEEERLDVPEGSLH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021447

ORF Size: 1098 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_021447.2](#), [NP_067422.1](#)

RefSeq Size: 1548 bp

RefSeq ORF: 1101 bp

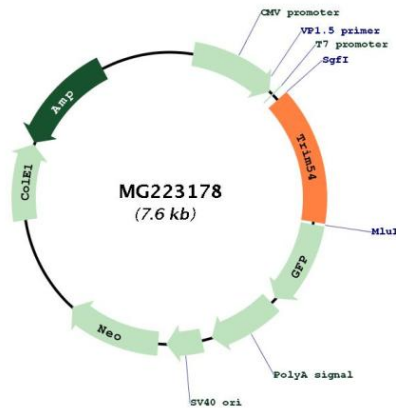
Locus ID: 58522

UniProt ID: [Q9ERP3](#)

Cytogenetics: 5 B1

Gene Summary: May bind and stabilize microtubules during myotubes formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223178