

Product datasheet for **RG205306**

MTM1 (NM_000252) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTM1 (NM_000252) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTM1
Synonyms:	CNM; MTMX; XLMTM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205306 representing NM_000252
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCTGCATCAACTTCTAAATATAATTCACACTCCTTGGAGAATGAGTCTATTAAGAGGACGTCTC
 GAGATGGAGTCAATCGAGATCTCACTGAGGCTGTTCTCGACTTCCAGGAGAAACACTAATCACTGACAA
 AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTACATCACAAATTATCGTCTT
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 AAAAAATGGGAGGCGCGACAAGTAGAGGAGAAAATTCCTATGGTCTAGATATTACTTGTAAAGACATGAG
 AAACCTGAGGTTTCGTTTGAACAGGAAGGCCACAGCAGAAGAGATATGTTTGGATCCTCACGAGATAC
 GCGTTTCCCTGGCTCACAGTCTGCCATTATTTGCATTTTTAAATGAAGAAAAGTTAACGTGGATGGAT
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 TATTAATAAGTGCTATGAGCTCTGTGACACTTACCCTGCTTTTTGGTGGTTCGGTATCGTGCCCTCAGAT
 GATGACCTCCGGAGAGTTGCAACTTTTAGTCCCGAAATCGAATTCAGTGTGTCATGGATTATCCAG
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 CCCAGCGTAAATGCAGTGGCCAACAAGGCAACAGGAGGAGGATATGAAAGTATGATGCATATCATAACG
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 TGTTTATCCTAATGTAGAAGAATCTCATTGGTTGCCAGTTTGGAGTCTACTCATTGGTTAGAACATATC
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 GTTACAGAAAGGACTGTTTCTTTATGGTCACTGATAAACAGTAATAAAGAAAAATTCAAAAACCCCTTCT
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 CTACATTAGATGGAACCCAGGATCAAGCAACAACAGCCGAATCCAGTGGAGCAGCGTTACATGGAGCTC
 TTAGCCTTACGCGACGAATACATAAAGCGGCTTGAGGAACTGCAGCTCGCCAACCTGCCAAGCTTCTG
 ATCCCCAACTTACCTCCAGTCTTCGCAAATGATGCCCATGTGCAAACTCACTT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

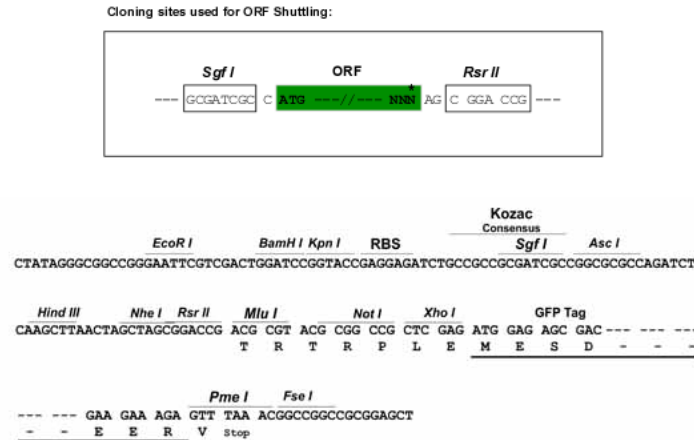
>RG205306 representing NM_000252
 Red=Cloning site Green=Tags(s)

MASASTSKYNSHLENESIKRTSRDGVNRDLTEAVPRLPGETLITDKEVIYICPFNGPIKGRVYITNYRL
 YLRSLETDSSLILDVPLGVISRIEKMGGATSRGENSYGLDITCKDMRNLRFALKQEGHSRRDMFEILTRY
 AFPLAHSPLPLFAFLNEEFNVDGWTVYNPVEEYRRQGLPNHHWRITFINKCYELCDTYPALLVVPYRASD
 DDLRRVATFRSRNRIPVLSWIHPENKTVIVRCSQPLVGMMSGKRKNDDEKYLDVIRETNKQISKLTIIDAR
 PSVNAVANKATGGGYESDDAYHNAELFFLDIHNIHVMRESLKKVKDIVYPNVEESHWLSSESTHWLEHI
 KLVLTGAIQVADKVSSGKSSVLVHCSGDWDRTAQLTSLAMLMLDSFYRSIEGFEILVQKKWISFGHKFAS
 RIGHGDKNHTDADRSPIFLQFIDCVWQMSKQFPPTAFEFNEQFLIILDHLYSRFGTFLFNCE SARERQK
 VTERTVSLWLSLINSNKEKFKNPFYTKENRVLVYVASMRLHLELVWNYIIRWNPRIKQQQPNPVEQRYMEL
 LALRDEYIKRLEELQLANS AKLSDPPTSPSSPSQMPHVQTHF

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_000252

ORF Size: 1809 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_000252.1](#), [NP_000243.1](#)

RefSeq Size: 3411 bp

RefSeq ORF: 1812 bp

Locus ID: 4534

UniProt ID: [Q13496](#)

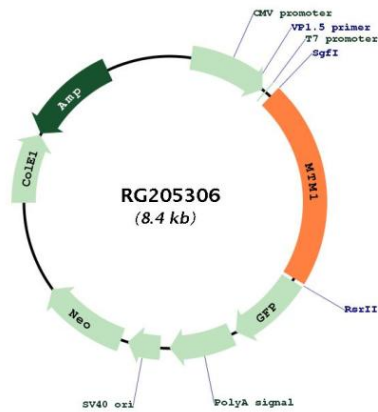
Cytogenetics: Xq28

Domains: PTPc_motif, GRAM

Protein Families: Druggable Genome, Phosphatase

Gene Summary: This gene encodes a dual-specificity phosphatase that acts on both phosphotyrosine and phosphoserine. It is required for muscle cell differentiation and mutations in this gene have been identified as being responsible for X-linked myotubular myopathy. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205306