

Product datasheet for **MG217428**

Tmco6 (NM_028036) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmco6 (NM_028036) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmco6
Synonyms:	2410015B03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217428 representing NM_028036
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGAATCGGGCGAGGGCCGCCTCAGGACGCTGGCGTTTGGGTGGAGGAGCTGCGGGCCGCCGGC
 GGGAGCGGGAGGCAGCCCTGCGGAAGGCCGCGGAGGGAGCAGCAGTTAGTCAGCAAGAGGCTGCTGAGGGA
 AGACGCCCCGGAAGAAGTCGGAGGCCAGAGTGCAGCTGTGCTCCTTGGGAAGCCGAGGTCCAGCAGTTC
 CTTGCGCTCGCCCAACGGGGGACAGATGAAAAGGAGAGGGAGAAGGCTCTGGTCAGCCTTCGTCGAGGCT
 TGCAGCACCCGTGACACACAGCAAACCTTCATCAGGCTGGAGGGCAGCATGCGGACCCCTGTTGGGATTTT
 GACCAGCAACCGGGCCTGTTGCAGCTTGGAGCGGCTCGGTGCCTTCATGAGCTCTCTATTCTGAGCAG
 TCTGCAGTGGCTGAGGCCTGCCTGCCAGCGACTTCTACCTCCTCACCTACCTCTCTGGTCACAGCTCAG
 ATTTTCATAGAGCTGTGTCTGTACACACTGGGAACCTCATCGTGGAGAGTGAGGCCGTGAGAAAGCAGCT
 CCTGCCGAGGGCATTGTCCAGCCTTTGCTGCCTGCATCCAGTCCCCCATGTGGCTGTGCTGGAAGCA
 CTTGGATATGCCTTGCCAGCTTCTGCAGGCTAAGGAAGCCCCAGAGAAGATCATTCCCTCTATTCTGG
 ATTCCAGTCTTCCCAGCAGATGCTACGGTTGATGCAACCAGGCCGAAGCTGAACCTTGGGGTTGCCAT
 GGAGTTTGCTTGGTGCCTTCACTATATCATCTGCAGCCAGGTCAACAATGCTGTGCTCCTTACCCATGGG
 GCTCTGCCACGTTGGCACTGCTGCTTTTGGACTTGGCTGGGACTGTGCAGAGAAATGGATGATGTGGGAC
 TAGAGTGCTTGCATGCCCGTGCCTCGGTGTCTAAGCAACCTGTTAACAGAAAGTCCAGCGGAGGTCAT
 GGGACAGCAAATGGAGCTCAGAGACGAGCGACTTGTGGCAGCCTATTTATCTTCTCCAGTTCTTCCTT
 CAGAAACAGCCTGCCTTGTACCTGAGGGCCTCTGGCTCCTCAACAACCTCACTGCAAACAGTCTACTT
 TTTGTACCTCCTTGCTCTCTGATCTGATCGAGCCGCTTTGCAGTTGTTGCCACTACAAATGTCAGT
 ATGCATGTTGGTCTCACAGTTCTGTGCAATGTGCTAGAGAAGGGTCCAGCTTACTGCCAGCGGTTGTGG
 CCAGGACCCCTGCTCTCCTGCGTCTTAAACACTGGCTCTCTCTGACACCGAAGTAGTAGGCCAGAGTT
 TGGAGCTGCTGCAGCTGCTATTCTTGCATCAGCCAGAGGCTGCCCGAGCCTTCTCTGCAGCAGTCAAGGCT
 GCAGGCCCTAGAAAAGCTCCAGGAGGAACTCAGCTTCCAGGAGAGGATACACGCGCTCCAGCAGATAGCT
 GCTACCCATGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217428 representing NM_028036
 Red=Cloning site Green=Tags(s)

MWNRQGRRLRTLAFGVEELRRRRREREALRKARREQQLVSKRLLREDAPEEVGGQSAAVLLGEAEVQQF
 LRLAQRGTDEKEREKALVSLRRGLQHPDTQQTFRLEGSMTLVGILTSNRALLQLEAARCLHELHSHSEQ
 SAVAEACL PATSYLLTYLSGHSSDFIELCLYTLGNLIVESEAVRKQLLPQGI VPAFAACIQSPHVAVLEA
 LGYALSQLLQAKEAPEKIIPSSILDSSLPQMLRLMQPGPKLNLGVAMEFAWCLHYIICSQVNNVALLTHG
 ALPTLALLLLDLAGTVQRMDDVGLELLACPVLRLSNLLTEVPAEVMGQMELRDERLVAALFIFLQFFL
 QKQPALLPEGLWLLNNLTANSPTFCTSLSLDLIEPLLQLLPLSNAVCMVLVTLVLCNVVEKGPAYCQRLW
 PGPLLSCVLNLTALSDTEVVGQSLELLQLLFLHQPEAARAFLLQSSGLQALEKLEETQLQERIHALLQQA
 ATHG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoRI BamHI KpnI RBS SgfI AscI

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- --- ---

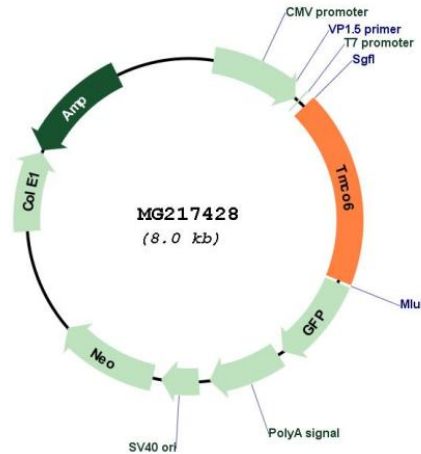
T R T R P L E M E S D - - -

PmeI FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM_028036

ORF Size: 1482 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_028036.3](#), [NP_082312.3](#)

RefSeq Size: 1815 bp

RefSeq ORF: 1485 bp

Locus ID: 71983

UniProt ID: [Q8BQX5](#)

Cytogenetics: 18 B2