

## Product datasheet for **MG217723**

### Trim45 (NM\_001165953) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim45 (NM_001165953) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trim45
Synonyms:	4921530N01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

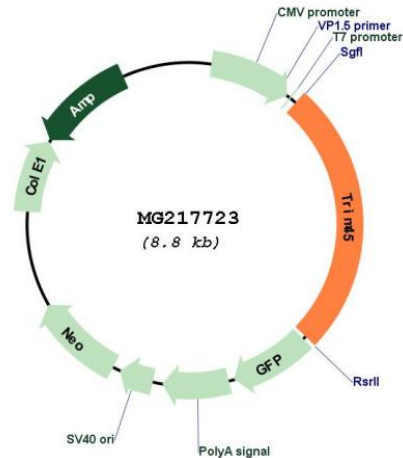
>MG217723 representing NM\_001165953  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCAGAAATCAGGAAGCCGTTCTGGGTTTCGTGCACAACTCCAAGATGCGAACCGCTCTGGAAGCT  
 CAGGCAAGACTCATTGTCTACATGTCTGAGGCTTTTCAAAGTCCCAGGCTCTTGCCTTCTTGCACAC  
 AGTGTGCCACACGTGTCTGGAAAAGCTGGATCCATTCTCAGTAGTGGACATCCGTGGGGGTGACTCAGAT  
 ACAAGCTCTGAGGGGTCAGTATTCCAGGACCCCGAGTTATGTAGCCTGCAGCCACAGATCGGCATCCTCT  
 GTCGGTATGTGATGCTCAAGTGGACCTGCCCTTGGGTGGAGTGAAGGCTTAAACGGTAGACCACCTGGC  
 CATGAATGATGTGCTGCTGGAGAACCTGCGTGGGAAGGCCAGGGCCTGGTGTGTGACCTGTGCAGCGAC  
 AGAGAAGTAGAGAAGAGGTGTGACACTGCAAAGCCAATCTCTGCCACTTCTGCTGCCAGGCTCATAGGC  
 GACAGAAGAAGACGACATATCACACCATGGTGGACCTAAAAGACCTGAAAGGCTACAGCCAGGTTGGAAA  
 GCCCATCTATGTCTTCTCACCTGCAGAGGAGCTGAGGCTGTCTGTGAACTCTGTGACCGCCGGGTG  
 TGTCGGGACTGTGTAGTTGGGGAGCACCGAGAGCACCCCTATGACTTCACCAGCAATGTCATCCACAAGC  
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 ACAGATTAAGAGTGTGAACAACGCCCTCCAAGAGCGAGTGGAGGCAAGTGGCAGCTGACGTCGGACATTC  
 TCTGAGGGCTACATCAAAGCCATCGAGGAACACCGGGACAAGCTGCTGCAGCAGCTGGATGACATACGGA  
 TCCAGAGGGAAACCGCTTACAGCTGCAGAAAGCGCAGCTGGAACAGCTGCTGGCAGATATGCGGACTGG  
 AGTGGAGTTCACCGAGCATCTGCTGACAGCGGCTCGGACTTAGAGATTCTATCACCAAGGGAGTGGTT  
 GTAGACGGCTCAGGAAGCTGAATAAAGTTGAATACAGTGCCCGCCAGGAGTGAACATAAGATCTGCT  
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 TGATCCAGCTCAGTGTGTCTTTCAGGGAGAAGTCTCCACAGAGCTCGAGAGAAAACAGACAGCCTTTTT  
 ACCTTGTCTGTAAAGATGCCTCGGGACAGAGCATGGGCAGGGGAGGAGATAATGTCCATGTGGAAGTTG  
 TCCCCAAGATAAGAAGGACAGTCCGATCAGAACAGTGGTCCAGGACAACAAGGATGGGTGCTACCGCT  
 TTCCTACACCCCAAGGAGCCTGGCATCTACACCGTGTGGGTCTGCATCAGAGAGCAGCAGTGCAGGGC  
 TCACCATCAACGTGACCGTGAGGAGGAAGCATCGGCCACATCCGGGTGTGTTTCACTGCTGCACCTTCT  
 GCTCCAGTGGAGGACAGAAAGCTGCCCGCTGTGCCTGCGGAGGCACCATGCCGGCCCGAGGCCAAGCA  
 GCAGCAAGCAAGGGTCCGTCCCTTTGCTGCCTCACAGGTGGATACCTTGCTGTGGCCACGGACACAAG  
 GCCACCCGGGCCCTCCACTGGTCTTGTGTGGGAAGTTCATTGAGAAGTCCGAGTGTCTGTTCCAGAG  
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 AGGTAACCTGAAGCTAGCATAACTTCAGCTATGCAGAGAACCCAGAGCTTGAGTAGTTCAAAAGAGACT  
 GACAGAATTAAGACGAAGTGTCTTCTAACATCAGACTTCAAGTGTCTTCTGTGTGGCATCTCTCGT  
 GTACCATGGCGGAGTGCAGGCCTCCCCTACACCGCTCCTCAAGGCAGGCTGCTGATCTACTCCACGGAAA  
 GCTCTCTGTTTTATACGGGCATTGAGGTGTCTGTGCCATGGGACCATGAGCTCCTGGAGCAGGGAGGAC  
 TTTATGCCTTCTTCCACTGTGTTGCAGCCTCTCCGGTTTACCCCGAGCTAGAGTTTCAGGGCTTCTCC  
 TGGAGGATGAAACCCCTCTGGCCATCATTGTTGTTGTATACTTTCAGTGGTTTCTAGTACACAGTT  
 TATGATGATTATCACGGTTTTGCCGTCTAGA

AG**CGGACCC**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Plasmid Map:**


**ACCN:** NM\_001165953

**ORF Size:** 2271 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001165953.1](#), [NP\\_001159425.1](#)

**RefSeq Size:** 4668 bp

**RefSeq ORF:** 2274 bp

**Locus ID:** 229644

**UniProt ID:** [Q6PFY8](#)

**Cytogenetics:** 3 F2.2

**Gene Summary:** May act as a transcriptional repressor in mitogen-activated protein kinase signaling pathway. [UniProtKB/Swiss-Prot Function]