

Product datasheet for **MR217723**

Trim45 (NM_001165953) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim45 (NM_001165953) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim45
Synonyms:	4921530N01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217723 representing NM_001165953
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGAAATCAGGAAGCCGTTCTGGGTTTCGTGCACAACTCCAAGATGCGAACCGCTCTGGAAGCT
 CAGGCAAGACTCATTGTCTACATGTCTGAGGCTTTTCAAAGTCCCAGGCTCTTGCCTTGTTCACAC
 AGTGTGCCACACGTGTCTGGAAAAGCTGGATCCATTCTCAGTAGTGGACATCCGTGGGGGTGACTCAGAT
 ACAAGCTCTGAGGGGTGAGTATTCCAGGACCCCGAGTTATGTAGCCTGCAGCCACAGATCGGCATCCTCT
 GTCCGGTATGTGATGCTCAAGTGGACCTGCCCTTGGGTGGAGTGAAGGCTTTAACGGTAGACCACCTGGC
 CATGAATGATGTGCTGCTGGAGAACCTGCGTGGGAAGGCCAGGGCTGGTGTGTGACCTGTGCAGCGAC
 AGAGAAGTAGAGAAGAGGTGTGACACTGCAAAGCCAATCTCTGCCACTTCTGCTGCCAGGCTCATAGGC
 GACAGAAGAAGACGACATATCACACCATGGTGGACCTAAAAGACCTGAAAGGCTACAGCCAGGTTGGAAA
 GCCCATCTATGTCTTCTCACCTGCAGAGGAGCTGAGGCTGTCTGTGAACTCTGTGACCGCCGGTG
 TGTCCGGACTGTGTAGTTGGGGAGCACCGAGAGCACCCCTATGACTTCACCAGCAATGTCATCCACAAGC
 ATGGAGATTCTGTGCGGGAGCTGCTTCGAGACACCCAGCCCCATGTGGAAGCCCTGGAAGATGCCCTGGC
 ACAGATTAAGAGTGTGAACAACGCCCTCCAAGAGCGAGTGGAGGCAAGTGGCAGCTGACGTCGGACATTC
 TCTGAGGGCTACATCAAAGCCATCGAGGAACACCGGGACAAGCTGCTGCAGCAGCTGGATGACATACGGA
 TCCAGAGGGAAACCGCTTACAGCTGCAGAAAGCGCAGCTGGAACAGCTGCTGGCAGATATGCGGACTGG
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 GTAGACGGCTCAGGAAGCTGAATAAAGTTGAATACAGTGCCCGCCAGGAGTGAACATAAAGCTGCT
 TCTCCCCCAGGAGAAGGCAGGCCAGTGCAGGCTATGAAGTGTATGGGGCCATTAACACGCAGGAAGT
 TGATCCAGCTCAGTGTGTCTTTCAGGGAGAAGTCTCCACAGAGCTCGAGAGAAAACAGACAGCCTTTTT
 ACCTTGTCTGTAAAGATGCCTCGGGACAGAGCATGGGCAGGGGAGGAGATAATGTCCATGTGGAAGTTG
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 TTCCTACACCCCAAGGAGCCTGGCATCTACACCGTGTGGGTCTGCATCAGAGAGCAGCAGTGCAGGGC
 TCACCATCAACGTGACCGTGGAGGGAAGCATCGGCCACATCCGGGTGTGTTTCACTGCTGCACCTTCT
 GCTCCAGTGGAGGACAGAAAGCTGCCCGCTGTGCCTGCGGAGGCACCATGCCGGCCCGAGGCCAAGCA
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 AGGTAACCTGAAGCTAGCATAACTTCAGCTATGCAGAGAACCCAGAGCTTGAGTAGTTCAAAAGAGACT
 GACAGAATTAAGACGAAGTGTCTTCTAACATCAGACTTCAAGTGTCTTCTGTGTGGCATCTCTCGT
 GTACCATGGCGGAGTGCAGGCTCCCTACACCGCTCCTCAAGGCAGGCTGCTGATCTACTCCACGGAAA
 GCTCTCTGTTTTATACGGGCATTGAGGTGTCTGTGCCATGGGACCATGAGCTCCTGGAGCAGGGAGGAC
 TTTATGCCTTCTTCCACTGTGTTGCAGCCTCTCCGGTTTACCCCGAGCTAGAGTTTACGGGCTTCTCC
 TGGAGGATGAAACCCCTTGCCCATCATTGTTGTTGTATACTTTCAGTGGTTTCTAGTACACAGTT
 TATGATGATTATCACGGTTTTGCCGTCTAGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217723 representing NM_001165953
 Red=Cloning site Green=Tags(s)

MSEIRKPLLGFVHKLQDANASGSSGKTHCPTCLRLFKVPRLPCLHTVCTTCLEKLPFVVDIRGGDSD
 TSSEGSVFDPELCSLQPQIGILCPVCDVLDLPLGGVKALTVDHAMNDVLEENLRGEGQGLVCDLCS
 REVEKRCQTCKANLCHFCCQAHRRQKTTYHTMVDLKDLDKGYSQVGKPIPCSHPAEELRLFCELC
 DRPVCRDCVVGEGHREHPYDFTSNVIHKHGDSVRELLRDTQPHVEALEDALAQIKSVNNALQER
 VEAVAADVRTFSEGYIKATIEEHRDKLLQQLDDIRIQRETALQLKQAQLEQLLADMRTGVEFTE
 HLLTSGSDLEILITKGVVVERLRKLNKVEYSARPGVNHKICFSPQEKAGQCQGYEVYGAINTQEVDPAQ
 CVLQGEDLHRAREKQTASFTLFCKDASGQSMGRGGDNVHVEVVPKDKKDSPIRTVVQDNKDG
 SYRVSYTPKEPGIYTVVWCIREQHVQGSPFNVTVRRKHRPHPGVFCCTFCSSGGQKAAR
 CACGGTMAPRRPKQQQARVRFPAASQVDLAVATDTKATRAVHTGLAVGSSLRSPSARS
 RVGRAPRGVCLGPWRSDASWGQVGPNGPEASITAMQRTQSLSSSKETDRIKDEVLSLTS
 DFKFCFLCGHLSCTMAECRPLHRSSRQAADLLHGKLSCFIRALRCLCHGMTSSWSRED
 FMPSFPLCCSLSGLPRARVSGLLLEDETPLAHHLFVVYFQWFPSTQFMIIITVLP

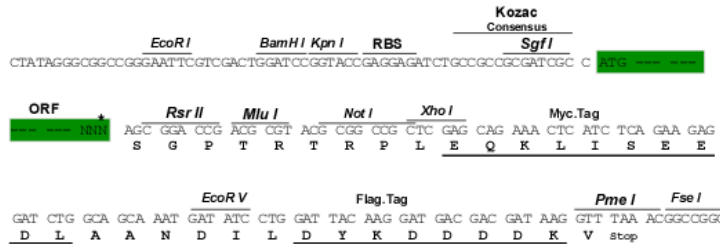
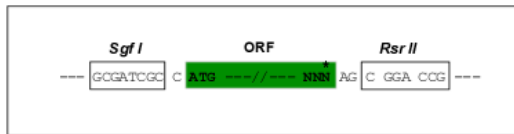
SGPTRRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2156_e04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



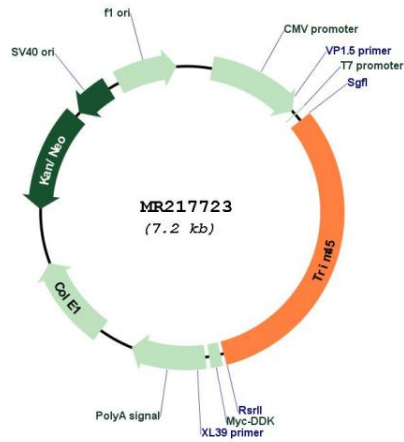
* The last codon before the Stop codon of the ORF

ACCN: NM_001165953

ORF Size: 2271 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	<u>NM_001165953.1, NP_001159425.1</u>
RefSeq Size:	4668 bp
RefSeq ORF:	2274 bp
Locus ID:	229644
UniProt ID:	<u>Q6PFY8</u>
Cytogenetics:	3 F2.2
MW:	84.4 kDa
Gene Summary:	May act as a transcriptional repressor in mitogen-activated protein kinase signaling pathway. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217723