

Product datasheet for **MR216175**

Trim45 (NM_001165952) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim45 (NM_001165952) 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:

>MR216175 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCAGAAATCAGGAAGCCGCTTCTGGGTTTCGTGCACAACTCCAAGATGCGAACCGCTCTGGAAGCT
 CAGGCAAGACTCATTGTCTACATGTCTGAGGCTTTTCAAAGTCCCAGGCTCTTGCCTTGCTTGCACAC
 AGTGTGCCACCAGTGTCTGGAAGCTGGATCCATTCTCAGTAGTGGACATCCGTGGGGTGACTCAGAT
 ACAAGCTCTGAGGGTCAAGTATCCAGGACCCGAGTTATGTAGCCTGCAGCCACAGATCGGCATCCTCT
 GTCCGGTATGTGATGCTCAAGTGGACCTGCCCTGGGTGGAGTGAAGGCTTTAACGGTAGACCACCTGGC
 CATGAATGATGTGCTGCTGGAGAACCTGCGTGGGAAGGCCAGGGCTGGTGTGTGACCTGTGCAGCGAC
 AGAGAAGTAGAGAAGAGTGTGACACCTGCAAAGCCAATCTCTGCCACTTCTGCTGCCAGGCTCATAGGC
 GACAGAAGAAGACGACATATCACACCATGGTGGACCTAAAAGACCTGAAAGGCTACAGCCAGGTTGGAAA
 GCCCATCTATGCTCTCACCTGCAGAGGAGCTGAGGCTGTTCTGTGAACTCTGTGACCGGCCGGTG
 TGTCCGGACTGTGTAGTTGGGGAGCACCGAGAGCACCCCTATGACTTCACCAGCAATGTCATCCACAAGC
 ATGGAGATTCTGTGCGGGAGCTGCTTCGAGACCCAGCCCCATGTGGAAGCCCTGGAAGATGCCCTGGC
 ACAGATTTAAAGTGTGAACAACGCCCTCCAAGAGCGAGTGGAGGCAAGTGGCAGCTGACGTCGGACATTC
 TCTGAGGGCTACATCAAAGCCATCGAGGAACACCGGGACAAGCTGCTGCAGCAGCTGGATGACATACGGA
 TCCAGAGGGAACCGCTTTACAGCTGCAGAAAGCGCAGCTGGAACAGCTGCTGGCAGATATGCGGACTGG
 AGTGGAGTTACCCGAGCATCTGCTGACCAGCGGCTCGGACTTAGAGATTCTATCACCAAGGGAGTGGTT
 GTAGAGCGGCTCAGGAAGCTGAATAAAGTTGAATACAGTGCCCGCCAGGAGTGAACATAAGATCTGCT
 TCTCCCCCAGGAGAAGGCAGGCCAGTCCAAGGCTATGAAGTGTATGGGGCCATTAACACCGCAGGAAGT
 TGATCCAGCTCAGTGTGCTCTCAGGGAGAAGATCTCCACAGAGCTCGAGAGAAACAGACAGCCTTTTT
 ACCTTGTCTGTGAAGGATGCCTCGGACAGAGCATGGGAGGGGAGGAGATAATGTCCATGTGGAAGTTG
 TCCCCAAAGATAAGAAGGACAGTCCGATCAGAACAGTGGTCCAGGACAACAAGGATGGTTCGTACCGCGT
 TTCCTACACCCCAAGGAGCCTGGCATCTACACCGTGTGGTCTGCATCAGAGAGCAGCAGTGCAGGGC
 TCACCATCAACGTGACCGTGGAGGGAAGCATCGCCACATCCGGGTGTGTTTCACTGCTGCACCTTCT
 GCTCCAGTGGAGACAGAAAGCTGCCCGCTGTGCTGCGGAGGCACCATGCCGGTGGATACCTTGCTG
 TGGCCACGGACACAAGGCCACCGGGCGTCCACACTGGTCTTGTGTGGGAAGTTCATTGAGAAGTCC
 GAGTGTCTGTTACAGAGTGGCAGGGCGCCCGAGGAGTCTGCTTAGGACCGTGGCGCTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

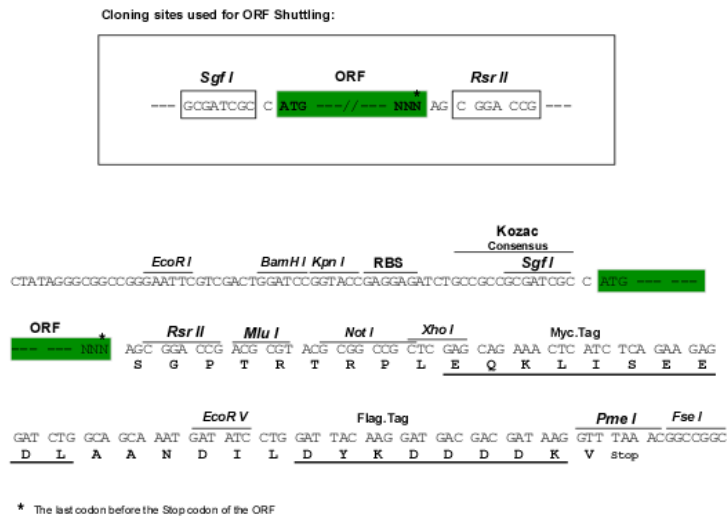
>MR216175 protein sequence
 Red=Cloning site Green=Tags(s)

MSEIRKPLLGFVHKLQDANASGSSGKTHCPTCLRLFKVPRLLPCLHTVCTTCKLEKLDPFVSVDIRGGDS
 TSSEGSVFDPELCSLQPQIGILCPVCDQVDLPLGGVKALTVDHLMNDVLLLENLRGEGQGLVCDLCS
 REVEKRCQTCKANLCHFCCQAHRRQKTTYHTMVDLKDLDKYSQVQKPIILCPSHPAEELRLFCELCDRPV
 CRDCVVEGHEHPYDFTSNVIHKHGDSVRELLRDTQPHVEALEDALAQIKSVNNALQERVEAVAADVRF
 SEGVIKAIIEHRDKLLQQLDDIRIQRETALQLKQAQLEQLLADMRTGVEFTEHLLTSGSDLEILITKGVV
 VERLRKLNKVEYSARPGVNHKICFSPQEKAGQCQGYEVYGAINTQEVDPAQCVLQGEDLHRAREKQTASF
 TLFCKDASGQSMGRGGDNVHVEVVPKDKDSPIRTVVQDNKDGSYRVSYTPKEPGIYTVWVCIREQHVQG
 SPFNVTVRRKHRPHPGV FHCCTFCSSGGQKAARCACGGTMPGGYLGCYGHGKHGHPGRPHWSCCGFIEKS
 ECSFTSGQGAPRSLRVTAL

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_001165952

ORF Size: 1740 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_001165952.1](#), [NP_001159424.1](#)

RefSeq Size: 3342 bp

RefSeq ORF: 1743 bp

Locus ID: 229644

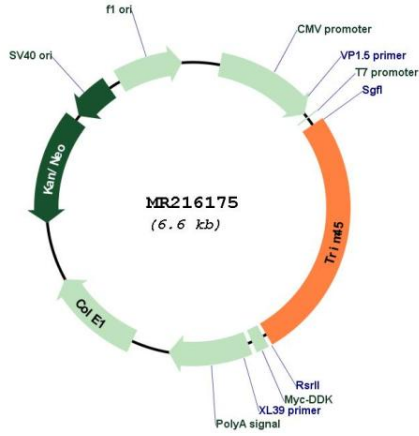
UniProt ID: [Q6PFY8](#)

Cytogenetics: 3 F2.2

MW: 64.3 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 MR216175