

Product datasheet for **MR210415**

Trim3 (NM_018880) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim3 (NM_018880) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim3
Synonyms:	BERP1; HAC1; Rnf22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210415 representing NM_018880
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAAAGAGGGAGGACAGCCCTGGCCGGAGGTGCAGCCAATGGACAAGCAGTTTCTGGTATGCAGTA
 TCTGTCTGGATCCGTACCGGTGCCCAAAGTTCTGCCTTGTCTACATACCTTCTGTGAAAGATGCCTCCA
 GAACTACATCCCTCCTCAGAGCCTGACACTGTCCTGTCCAGTGTCCGGCAGACATCCATCCTCCAGAA
 CAGGGCGTCTCAGCCCTACAAAACAACCTTCTTCATCAGCAGCCTCATGGAGGCCATGCAGCAGGCACCTG
 AGGGGGCTCATGACCCTGAAGACCCCCACCCCTCAGCGCAGTGGCTGGCCGCCCTCTCTCTGCCCAA
 CCATGAAGGCAAGACAATGGAGTTTTACTGTGAGGCTGTGAGACTGCCATGTGTGGTGAAGTCCCGCA
 GGGGAGCACCGTGAACACGGCACAGTGTGTTGCGGGATGTGGTGGAGCAGCACAAGGCAGCTCTGCAGC
 GCCAGCTTGAGGCTGTGCGTGGCCGATTGCCACAGCTGTCTGCAGCTATCGCCTTGGTTGGGGGTATCAG
 CCAGCAGCTGCAAGAGCGCAAGGCAGAGCCCTGGCTCAGATAAGTGCTGCCTTTGAGGACCTGGAGCAA
 GCTCTGCAGCAGCGCAAGCAGGCTCTGGTCAGCGACTTGGAGAGCATTTGTGGGGCCAAACAGAAGGTGT
 TGCAGACACAGTTAGACACACTGCGCCAGGGCCAGGAGCATTGGCAGTAGCTGCAGCTTTGCAGAGCA
 GGCACTGAGACTGGGCTCTGCCCTGAGTTTTGCTAGTAAGAAAGCATAATGCGAGAGAGGCTGGCTGT
 CTGGCAGCTCAGGCCCTCCAGAAAGGCCACATGAGAAATGCCAGCTGGAAGTGGTCTTGAAGTGGACG
 GGTGCGGAGATCGGTGCTCAACTGGGGGCACTGCTCACCACCAAGTGTACAGCCCATGAGACAGTGGC
 CACGGGCGAGGGCTGCGCCAGGCACTAGTTGGCCAGCCTGCTTCTCTACTGTACCACCAAAGACAAA
 GATGGGCGGCTGGTGCACAGGCAGCGCAGAGCTGTGTGCAGAGACTACTGGCCCGATGGTGTGCGCC
 TTGCAGTACCGGTGGTGGACCACAAAAATGGCACATACGAGCTGGTGTACACTGCACGCACAGAAGGTGA
 CCTGCTCCTCTCAGTGTGCTCTATGGACAGCCGGTGCCTGGCAGCCCTTTTCGTGTGCGTGCCTTCGA
 CCTGGGGACCTGCCACCTTCCCCAGATGATGTGAAGCGCCGGTCAAGTCTCCCGTGGTCTGGCAGTC
 ATGTGCGCCAGAAGGCAGTTCGTAGGCCGAGCTCCATGTACAGCACTGGTGGCAAACGGAAGGACAATCC
 AATTGAAGACGAACTCGTCTTTCGTGTTGGTAGCTGGAAGGGAGAAGGGTGAATTCACCAATTTACAA
 GGTGTGTCGCTGCTAGCAGTGGCCGCATCGTGGTAGCAGACAGCAACAACCAATGTATTAGGTTTTCT
 CCAATGAGGGCCAGTTCAGTTCGATTTGGGGTCCGTGGGCGCTCACCTGGGCAACTACAGCGTCTAC
 AGGTGTGGCAGTGGACACCAATGGAGACATTATTGTGGCAGACTATGACAACCGTTGGGTGAGCATCTC
 TCTCTGAAGGCAAGTTCAGACCAAGATTGGAGCTGGCCGCTCATGGGACCAAGGGAGTGGCTGTGG
 ACCGAAATGGACATATCATTGTGGTGGATAACAAATCTTGCTGTGCTTACCTTCCAGCCCAATGGCAA
 GCTTGTGGGCGTTTTGGAGGCCGTGGGGCCACTGACCGCCACTTTGCAGGGCCCACTTTGTGGCTGTG
 AACAAAGAATGAGATTGTAGTAACGGATTTCCATAACCATTAGTGAAGGTGTACAGTGTGACGGAG
 AGTTCTCTTCAAATTTGGCTCGCATGGCGAGGGCAACGGACAGTTCAATGCCCCACGGGAGTAGCTGT
 GGATCCAATGGGAACATCATCGTGGCCGACTGGGGCAACAGCCGCATACAGGTATTTCGACAGCTCTGGT
 TCCTTCTGTCTATATCAACACGTCTGCAGAGCCACTATATGGCCACAGGGCTTGGCATTGACCTCGG
 ATGGCCACGTGGTAGTGGCTGATGCTGGCAACCACTGCTTAAGGCCTATCGATACCTCCAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210415 representing NM_018880
Red=Cloning site Green=Tags(s)

MAKREDSPGPEVQPMQKQFLVCSICLDRYRCPKVLPC LHFCERCLQNYIPPQSLT LSCPVCRQTSILPE
 QGVSA LQNNFFISSLMEAMQQAPEGAHPDPHPLSAVAGRPLSCPNHEGKTM EFYCEACETAMCGECRA
 GEHREHGTVLLRDVVEQHKAA LQRQLEAVRGRLPQLSAAIALVGGISQQLQERKAEALAQI SAAFEDLEQ
 ALQQRKQALVSDLESICGAKQKVLQTQLD LTRQGEHIGSSCSFAEQALRLGSAPEVLLVRKHMRRERLAA
 LAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATGEGLRQALVGQPASLTVTTKDK
 DGRLVRTGSAELCAEITGPDGVRLAVPVVDHKNGTYELVYTARTEGDL LLSVLLYGQPVRGSPFRVRALR
 PGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKNPIEDELVFRVGSRGREKGEFTNLQ
 GVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVGRSPGQLQRPTGVAVDTNGDIIVADYDNRWVSIF
 SPEGKFKTKIGAGRLMGPKGVAVDNRNGHIIVVDNKSCCVTFQPNGKLVGRFGGRGATDRHFAGPHFVAV
 NNKNEIVVDFHNHNSVKVYSADGEFLFKFGSHGEGNGQFNAPTGVAVDSNGNIIIVADWGN SRIQVFDSSG
 SFLSYINTSAEPLYGPQGLALTSDGHVVADAGNHCFKAYRYLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

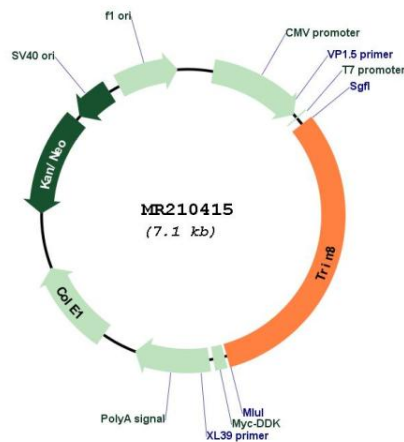
ACCN: NM_018880

ORF Size: 2232 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:	<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_018880.3, NP_061368.1</u>
RefSeq Size:	2866 bp
RefSeq ORF:	2235 bp
Locus ID:	55992
UniProt ID:	<u>Q9R1R2</u>
Cytogenetics:	7 E3
MW:	81.2 kDa
Gene Summary:	Probably involved in vesicular trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation (By similarity). Positively regulates motility of microtubule-dependent motor protein KIF21B (PubMed:24086586).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR210415