

## Product datasheet for **MR230968**

### Trim3 (NM\_001285873) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim3 (NM_001285873) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim3
Synonyms:	BERP1; HAC1; Rnf22
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230968 representing NM\_001285873  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAAAGAGGGAGGACAGCCCTGGCCGGAGGTGCAGCCAATGGACAAGCAGTTTCTGGTATGCAGTA  
 TCTGTCTGGATCGGTACCGGTGCCCAAAGTTCTGCCTTGTCTACATACCTTCTGTGAAAGATGCCTCCA  
 GAACTACATCCCTCCTCAGAGCCTGACACTGTCCTGTCCAGTGTGCCGGCAGACATCCATCCTCCAGAA  
 CAGGGCGTCTCAGCCCTACAAAACAACCTTCTTCATCAGCAGCCTCATGGAGGCCATGCAGCAGGCACCTG  
 AGGGGGCTCATGACCCTGAAGACCCCCACCCCTCAGCGCAGTGGCTGGCCGCCCTCTCTCTGCCCAA  
 CCATGAAGGCAAGACAATGGAGTTTTACTGTGAGGCCTGTGAGACTGCCATGTGTGGTGAAGTCCCGCA  
 GGGGAGCACCGTGAACACGGCACAGTGTGTTGCGGGATGTGGTGGAGCAGCACAAGGCAGCTCTGCAGC  
 GCCAGCTTGAGGCTGTGCGTGGCCGATTGCCACAGCTGTCTGCAGCTATCGCCTTGGTTGGGGGTATCAG  
 CCAGCAGCTGCAAGAGCGCAAGGCAGAGGCCCTGGCTCAGATAAGTGCTGCCTTTGAGGACCTGGAGCAA  
 GCTCTGCAGCAGCGCAAGCAGGCTCTGGTCAGCGACTTGAGAGCATTTGTGGGGCCAAACAGAAGGTGT  
 TGCAGACACAGTTAGACACACTGCGCCAGGGCCAGGAGCATTGGCAGTAGCTGCAGCTTTGCAGAGCA  
 GGCACTGAGACTGGGCTCTGCCCTGAGTTTTGCTAGTAAGAAAGCATAATGCGAGAGAGGCTGGCTGT  
 CTGGCAGCTCAGGCCCTCCAGAAAGGCCACATGAGAAATGCCAGCTGGAAGTGGTCTTGAAGTGGACG  
 GGTGCGGAGATCGGTGCTCAACTGGGGGCACTGCTCACCACCAAGTGTACAGCCCATGAGACAGTGGC  
 CACGGGCGAGGGCCTGCGCCAGGCACTAGTTGGCCAGCCTGCTTCTCTACTGTACCACCAAGACAAA  
 GATGGGCGGCTGGTGCACAGGCAGCGCAGAGCTGTGTGCAGAGACTACTGGCCCGATGGTGTGCGCC  
 TTGCAGTACCGGTGGTGGACCACAAAAATGGCACATACGAGCTGGTGTACTACTGCACGCACAGAAGGTGA  
 CCTGCTCCTCTCAGTGTCTCTATGGACAGCCGGTGGTGGCAGCCCTTTTCGTGTGCGTGCCTTCGA  
 CCTGGGGACCTGCCACCTTCCCAAGATGATGTGAAGCGCCGGTCAAGTCTCCCGGTGGTCTGGCAGTC  
 ATGTGCGCCAGAAGGCAGTTCGTAGGCCGAGCTCCATGTACAGCACTGGTGGCAAACGGAAGGACAATCC  
 AATTGAAGACGAACTCGTCTTTCGTGTTGGTAGTCGTGGAAGGGAGAAGGGTGAATTCACCAATTTACAA  
 GGTGTGTCGCTGCTAGCAGTGGCCGCATCGTGGTAGCAGACAGCAACAACCAATGTATTACAGTTTTCT  
 CCAATGAGGGCCAGTTCAGTTCGATTTGGGGTCCGTGGGCGCTCACCTGGGCAACTACAGCGTCTAC  
 AGGTGTGGCAGTGGACACCAATGGAGACATTATTGTGGCAGACTATGACAACCGTTGGGTGAGCATCTTC  
 TCTCCTGAAGGCAAGTTCAGACCAAGATTGGAGCTGGCCGCTCATGGGACCAAGGGAGTGGCTGTGG  
 ACCGAAATGGACATATCATTGTGGTGGATAACAAATCTTGCTGTGTCTTACCTTCCAGCCCAATGGCAA  
 GCTTGTGGGCGTTTTGGAGGCCGTGGGGCCACTGACCGCCACTTTGCAGGGCCCACTTTGTGGCTGTG  
 AACAAAGAATGAGATTGTAGTAACGGATTTCCATAACCATTAGTGAAGGTGTACAGTGTGACGGAG  
 AGTTCTCTTCAAATTTGGCTCGCATGGCGAGGGCAACGGACAGTTCAATGCCCCACGGGAGTAGCTGT  
 GGATCCAATGGGAACATCATCGTGGCCGACTGGGGCAACAGCCGCATACAGGTTTGGAGGATGGAGAGT  
 CCAAGATCAAGGTGCTGGTGTGTTTTGGTGCCTGGTGAAGTGGCCTGCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR230968 representing NM\_001285873  
 Red=Cloning site Green=Tags(s)

MAKREDSPGPEVQPMKQFLVCSICLDRYRCPKVL PCLHTFCERCLQNYIPPQSL T LSCPVCRQTSILPE  
 QGVSALQNNFFISSLMEAMQQAPEGAHPDPHPL SAVAGRPLSCP NHEGKTM EFYCEACETAMCGECRA  
 GEHREHGTVLLRDVVEQHKAALQRQLEAVRGRLPQLSAAIALVGGISQQLQERKAELAQISAAFEDLEQ  
 ALQQRKQALVSDLESICGAKQKVLQTQLD LTRQGQEHIGSSCSFAEQALRLGSAPEVLLVRKHMRLAA  
 LAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATGEGLRQALVGQPASLTVTTKDK  
 DGRLVRTGSAELCAEITGPDGVRLAVPVVDHKNGT YELVYTARTEGDL LLSVLLYGQPVGRSPFRVRLR  
 PGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKNPIEDELVFRVGRGREKGEFTNLQ  
 GYSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVGRSPGQLQRPTGVAVDTNGDIIVADYDNRWVSIF  
 SPEGKFKTKIGAGRLMGPKGVAVDRNGHIIVVDNKSCCVFTFQPNGKLVGRFGGRGATDRHFAGPHFVAV  
 NNKNEIVVTD FHNH SVK VYSADGEFLFKFGSHGEGNGQFNAPTGVAVDSNGNIIIVADWGN SRIQVWRMES  
 PRSRCWCFWLVKMACS

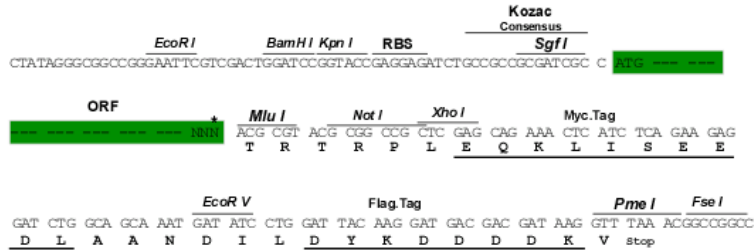
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

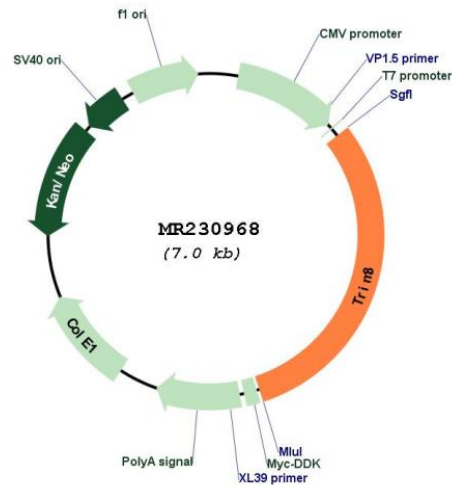
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001285873

**ORF Size:** 2151 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\\_001285873.1](#), [NP\\_001272802.1](#)

**RefSeq Size:** 2529 bp

**RefSeq ORF:** 2154 bp

Locus ID: 55992

UniProt ID: [Q9R1R2](#)

Cytogenetics: 7 E3

MW: 78.7 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]