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Product datasheet for MG210415

Trim3 (NM_018880) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim3 (NM_018880) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trim3
Synonyms:	BERP1; HAC1; Rnf22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG210415 representing NM_018880
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAAGAGGGAGGACAGCCCTGGCCCGGAGGTGCAGCCAATGGACAAGCAGTTTCTGGTATGCAGTA
TCTGTCTGGATCGGTACCGGTGCCCCAAAGTTCTGCCTTGTCTACATACCTTCTGTGAAAGATGCCTCCA
GAACTACATCCCTCCTCAGAGCCTGACACTGTCCTGTCCAGTGTGCCGGCAGACATCCATCCTCCCAGAA
CAGGGCGTCTCAGCCCTACAAAACAACTTCTTCATCAGCAGCCTCATGGAGGCCATGCAGCAGGCACCTG
AGGGGGCTCATGACCCTGAAGACCCCCACCCCCTCAGCGCAGTGGCTGGCCGCCCTCTCTCCTGCCCCAA
CCATGAAGGCAAGACAATGGAGTTTTACTGTGAGGCCTGTGAGACTGCCATGTGTGGTGAGTGCCGCGCA
GGGGAGCACCGTGAACACGGCACAGTGCTGTTGCGGGATGTGGTGGAGCAGCACAAGGCAGCTCTGCAGC
GCCAGCTTGAGGCTGTGCGTGGCCGATTGCCACAGCTGTCTGCAGCTATCGCCTTGGTTGGGGGTATCAG
CCAGCAGCTGCAAGAGCGCAAGGCAGAGGCCCTGGCTCAGATAAGTGCTGCCTTTGAGGACCTGGAGCAA
GCTCTGCAGCAGCGCAAGCAGGCTCTGGTCAGCGACTTGGAGAGCATTTGTGGGGCCAAACAGAAGGTGT
TGCAGACACAGTTAGACACACTGCGCCAGGGCCAGGAGCACATTGGCAGTAGCTGCAGCTTTGCAGAGCA
GGCACTGAGACTGGGCTCTGCCCCTGAGGTTTTGCTAGTAAGAAAGCATATGCGAGAGAGGCTGGCTGCT
CTGGCAGCTCAGGCCTTCCCAGAAAGGCCACATGAGAATGCCCAGCTGGAACTGGTCCTTGAAGTGGACG
GGTTGCGGAGATCGGTGCTCAACCTGGGGGCACTGCTCACCACCAGTGCTACAGCCCATGAGACAGTGGC
CACGGGCGAGGGCCTGCGCCAGGCACTAGTTGGCCAGCCTGCTTCTCTCACTGTCACCACCAAAGACAAA
GATGGGCGGCTGGTGCGCACAGGCAGCGCAGAGCTGTGTGCAGAGATCACTGGCCCCGATGGTGTGCGCC
TTGCAGTACCGGTGGTGGACCACAAAAATGGCACATACGAGTTGGTGTACACTGCACGCACAGAAGGTGA
CCTGCTCCTCTCAGTGCTGCTCTATGGACAGCCGGTGCGTGGCAGCCCTTTTCGTGTGCGTGCCCTTCGA
CCTGGGGACCTGCCACCTTCCCCAGATGATGTGAAGCGCCGGGTCAAGTCTCCCGGTGGTCCTGGCAGTC
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AATTGAAGACGAACTCGTCTTTCGTGTTGGTAGTCGTGGAAGGGAGAAGGGTGAATTCACCAATTTACAA
GGTGTGTCCGCTGCTAGCAGTGGCCGCATCGTGGTAGCAGACAGCAACAACCAATGTATTCAGGTTTTCT
CCAATGAGGGCCAGTTCAAGTTCCGATTTGGGGTCCGTGGGCGCTCACCTGGGCAACTACAGCGTCCTAC
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TCTCCTGAAGGCAAGTTCAAGACCAAGATTGGAGCTGGCCGCCTCATGGGACCCAAGGGAGTGGCTGTGG
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GCTTGTTGGGCGTTTTGGAGGCCGTGGGGCCACTGACCGCCACTTTGCAGGGCCCCACTTTGTGGCTGTG
AACAACAAGAATGAGATTGTAGTAACGGATTTCCATAACCATTCAGTGAAGGTGTACAGTGCTGACGGAG
AGTTCCTCTTCAAATTTGGCTCGCATGGCGAGGGCAACGGACAGTTCAATGCCCCCACGGGAGTAGCTGT
GGATTCCAATGGGAACATCATCGTGGCCGACTGGGGCAACAGCCGCATACAGGTATTCGACAGCTCTGGT
TCCTTCCTGTCCTATATCAACACGTCTGCAGAGCCACTATATGGCCCACAGGGCTTGGCATTGACCTCGG
ATGGCCACGTGGTAGTGGCTGATGCTGGCAACCACTGCTTTAAGGCCTATCGATACCTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

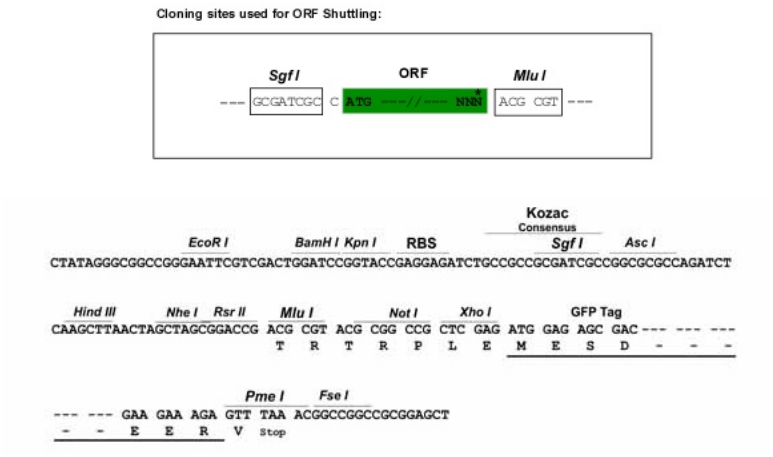
>MG210415 representing NM_018880
Red=Cloning site Green=Tags(s)

MAKREDSPGPEVQPMDKQFLVCSICLDRYRCPKVLPCLHTFCERCLQNYIPPQSLTLSCPVCRQTSILPE
QGVSALQNNFFISSLMEAMQQAPEGAHDPEDPHPLSAVAGRPLSCPNHEGKTMEFYCEACETAMCGECRA
GEHREHGTVLLRDVVEQHKAALQRQLEAVRGRLPQLSAAIALVGGISQQLQERKAEALAQISAAFEDLEQ
ALQQRKQALVSDLESICGAKQKVLQTQLDTLRQGQEHIGSSCSFAEQALRLGSAPEVLLVRKHMRERLAA
LAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATGEGLRQALVGQPASLTVTTKDK
DGRLVRTGSAELCAEITGPDGVRLAVPVVDHKNGTYELVYTARTEGDLLLSVLLYGQPVRGSPFRVRALR
PGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKDNPIEDELVFRVGSRGREKGEFTNLQ
GVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVRGRSPGQLQRPTGVAVDTNGDIIVADYDNRWVSIF
SPEGKFKTKIGAGRLMGPKGVAVDRNGHIIVVDNKSCCVFTFQPNGKLVGRFGGRGATDRHFAGPHFVAV
NNKNEIVVTDFHNHSVKVYSADGEFLFKFGSHGEGNGQFNAPTGVAVDSNGNIIVADWGNSRIQVFDSSG
SFLSYINTSAEPLYGPQGLALTSDGHVVVADAGNHCFKAYRYLQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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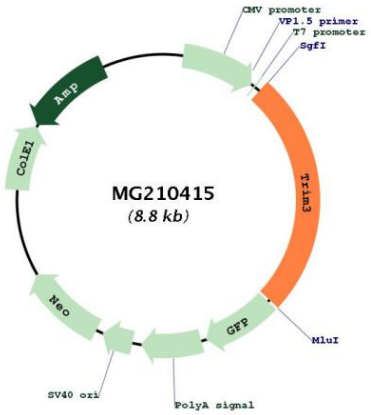
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018880.2
RefSeq Size:	2955 bp
RefSeq ORF:	2235 bp
Locus ID:	55992
UniProt ID:	Q9R1R2
Cytogenetics:	7 E3
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 MG210415

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