

Product datasheet for **MG227183**

Trip13 (NM_027182) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trip13 (NM_027182) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trip13
Synonyms:	2410002G23Rik; D13Ertd328e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227183 representing NM_027182 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGAGGGCGGTGGGCGACCTGAAGCAAGCGCTTCCCTGTGTTGCCGAATCGCCCGGGTCCATGTGG
AGGTTCTGCAGCGCAGCGGAAGCACTGCAAAAAAGAAGATATAAAGTCGAGTGTTTACAGGCTGCTCAA
CCGGCATAATATTGTGTTGGAGATTACGTCTGGACTGAGTTTGATGATCCTTTTCTAAGCAGAAATGTT
CAGTCAGTGTCTATTGTTGACACAGAACTAAAGGCTAAAGACCCTCAGCCCATTGATCTGAGTGCATGCA
CCATTGCACTTACATCTCCAGCTGAATGAAGAAGGCCCCAGCAGTGAGAATTTGGATGAAGAAACAGA
AAATATAATTGCAGCAAGTCACTGGGTTCTGCCTGCAGCTGAATTCATGGACTTTGGGATAGCCTCGTG
TATGATGTGGAGGTCAAATCACATCTCCTTGATTATGTGATGACCACCGTACTCTTCTCAGACAAGAACG
TGGACAGCAACCTCATCACCTGGAACCGGGTGGTCTGCTGCACGGTCTCCGGGTACTGAAAAACATC
CCTTTGTAAGGCATTAGCCCAAAAAGTACCATCAGACTGTCGAGCAGGTACCGGTATGGCCAGTTGATT
GAAATAAACAGCCACAGCCTATTTTCTAAGTGGTTTTAGAAAAGTGGCAAATGGTAACTAAGATGTTCC
AGAAGATTCAGGACTTGATTGATGATAAGGAAGCTTTGGTGTGTTCTGATTGATGAGGTGGAGAGTCT
CACAGCTGCTCGAAATGCTTGCAGGGCAGGCGCAGAGCCATCAGATGCTATCCGAGTAGTCAATGCTGTG
TTGACTCAGATTGACCAGATTAAGGCAATCCAATGTGGTGATTCTGACCACTCCAACATCACTGAGA
AGATTGATGGCTTTCGTGGATAGAGCTGACATCAAGCAATACATTGGCCCCCCTCTGCAGCAGCCAT
CTTCAAAATCTACCTGTCTTGTTTAGAAGAACTGATGAAGTGCCAGATCATATATCCTCGTCAGCAGCTG
TTGACCCTTCGGGAGCTGGAATGATTGGCTTCATTGAAAATAATGTGTCAAAGTTGAGCCTCCTTTTGA
GTGAAATTTCAAGGAAGAGTGAGGGCCTCAGTGGCCGGTCTTGAGGAACTTCTTTCTGGCTCATGC
TCTCTACATCCAGGCCCCAGCGTCACCATCGAGGGTTTCTCCAGGCCATCTCTGGCAGTGACAAA
CAGTTTGAGGAGAAAAAGAACTTTCAGCTTATGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227183 representing NM_027182
 Red=Cloning site Green=Tags(s)

MDEAVGDLKQALPCVAESPAVHVEVLQRSGSTAKKEDIKSSVYRLLNRHNIVFGDYVWTEFDDPFLSRNV
 QSVSIVDTLAKADPQPIDLSACTIALHIFQLNEEGPSSNLEETENIIAASHWVLPAAEFHGLWDSL
 YDVEVKSHLLDYVMTTVLFSKDNVDSNLITWNRVLLHGPPGTGKTSLCKALAQKLTIRLSSRYRYGQLI
 EINSLSLFSKWFSESGKLVTKMFQKIQDLIDDKEALVFVLIIDEVESLTAARNACRAGAEPDAIRVVNAV
 LTQIDQIKRHSNVVILTTSNITEKIDVAFVDRADIKQYIGPPSAAAIFKIYLSCLEELMKCQIIYPRQQL
 LTLRELEMIGFIENNVSKLSLLLSEISRKSEGLSGRVLRLPFLAHALYIQAPSVTIEGFLQALS
 LAVDKQFEKKKLSAYV

TRTRPLE - GFP Tag - V

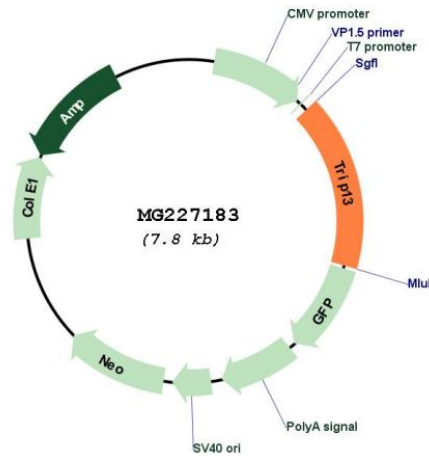
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_027182

ORF Size:	1296 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:	NM_027182.2 , NP_081458.1
RefSeq Size:	2267 bp
RefSeq ORF:	1299 bp
Locus ID:	69716
UniProt ID:	Q3UA06
Cytogenetics:	13 40.15 cM
Gene Summary:	Plays a key role in chromosome recombination and chromosome structure development during meiosis. Required at early steps in meiotic recombination that leads to non-crossovers pathways. Also needed for efficient completion of homologous synapsis by influencing crossover distribution along the chromosomes affecting both crossovers and non-crossovers pathways. Also required for development of higher-order chromosome structures and is needed for synaptonemal-complex formation. In males, required for efficient synapsis of the sex chromosomes and for sex body formation. Promotes early steps of the DNA double-strand breaks (DSBs) repair process upstream of the assembly of RAD51 complexes. Required for depletion of HORMAD1 and HORMAD2 from synapsed chromosomes (PubMed:17696610, PubMed:19851446, PubMed:20711356). Plays a role in mitotic spindle assembly checkpoint (SAC) activation (By similarity).[UniProtKB/Swiss-Prot Function]