

Product datasheet for **MR227183**

Trip13 (NM_027182) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trip13 (NM_027182) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trip13
Synonyms:	2410002G23Rik; D13Ertd328e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227183 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGAGGCGGTGGGCGACCTGAAGCAAGCGCTTCCCTGTGTTGCCGAATCGCCCGGGTCCATGTGG
 AGGTTCTGCAGCGCAGCGGAAGCACTGCAAAAAAGAAGATATAAAGTCGAGTGTTACAGGCTGC TCAA
 CCGGCATAATATTGTGTTGGAGATTACGCTCGACTGAGTTTGTATGATCCTTTTCTAAGCAGAAATGTT
 CAGTCAGTGTCTATTGTTGACACAGA AACTAAAGGCTAAAGACCCTCAGCCCATTGATCTGAGTGCATGCA
 CCATTGCACCTCACATCTCCAGCTGAATGAAGAAGGCCCCAGCAGTGAGAATTTGGATGAAGAAACAGA
 AAATAAATTGCAGCAAGTCACTGGGTTCTGCCTGCAGCTGAATTTTATGGACTTTGGGATAGCCTCGTG
 TATGATGTGGAGGTCAAATCACATCTCCTTGATTATGTGATGACCACCGTACTCTTCTCAGACAAGAACG
 TGGACAGCAACCTCATCACCTGGAACCGGGTGGTCTGCTGCACGGTCTCCGGGACTGGAAAAACATC
 CCTTTGTAAGGCATTAGCCAAAAACTGACCATCAGACTGTCGAGCAGGTACCGGTATGGCCAGTTGATT
 GAAATAAACAGCCACAGCCTATTTTCTAAGTGGTTTTTCAGAAAAGTGGCAAATTTGTAACCTAAGATGTTCC
 AGAAGATTCAGGACTTGATTGATGATAAGGAAGCTTTGGTGTGTTGTTCTGATTGATGAGGTGGAGAGTCT
 CACAGCTGCTCGAAATGCTTGCAGGGCAGGCGCAGAGCCATCAGATGCTATCCGAGTAGTCAATGCCTGTG
 TTGACTCAGATTGACCAGATTAAGGCAATCCAATGTGGTGATTCTGACCACTCCAACATCACTGAGA
 AGATTGATGTGGCTTTCGTGGATAGAGCTGACATCAAGCAATACATTGGCCCCCTCTGCAGCAGCCAT
 CTTCAAATCTACCTGTCTTGTGTTAGAAGAACTGATGAAGTGCAGATCATATACCTCGTCAGCAGCTG
 TTGACCTTCGGGAGCTGAAAATGATTGGCTTCATTGAAAATAATGTGTCAAAGTTGAGCCTCCTTTTGA
 GTGAAATTTCAAGGAAGAGTGAGGGCCTCAGTGGCCGGGCTTTGAGGAAACTTCTTTTCTGGCTCATGC
 TCTCTACATCCAGGCCCCAGCGTCACCATCGAGGGTTTCTCCAGGCCCTATCTCTGGCAGTGGACAAA
 CAGTTTGAGGAGAAAAAGAACTTTCAGCTTATGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227183 protein sequence
 Red=Cloning site Green=Tags(s)

MDEAVGDLKQALPCVAESPAVHVEVLQRSSTAKKEDIKSSVYRLLNRHNIVFGDYVWTEFDDPFLSRNV
 QSVSIVDELKAKDPQPIDLSACTIALHIFQLNEEGPSSENLDEETENIIAASHWVLPAAEFHGLWDSL
 YDVEVKSHLLDYVMTTVLFSKNDVSNLITWNRVLLHGPPGTGKTSCKALAQKLTIRLSSRYRYGQLI
 EINSLSLFSKWFSESGKLVTKMFQKIQDLIDDKEALVFVLIDEVESLTAARNACRAGAEPDAIRVNAV
 LTQIDQIKRHSNVVILTTSNITEKIDVAFVDRADIKQYIGPPSAAAIFKIYLSCLEELMKCQIIYPRQQL
 LTLRELEMIGFIENNVSKLSLLLSEISRKSEGLSGRVLRLPFLAHALYIQAPSVTIEGFLQALS LAVDK
 QFEKKKLSAYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_027182

ORF Size: 1299 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_027182.2](#), [NP_081458.1](#)
RefSeq Size: 2267 bp

RefSeq ORF: 1299 bp

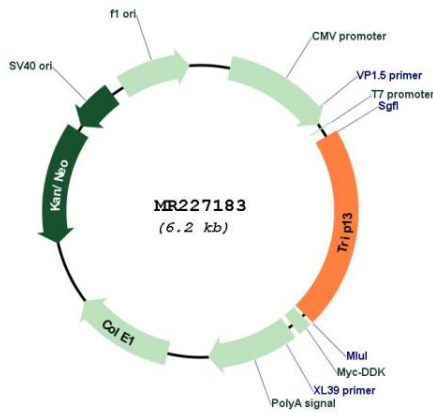
Locus ID: 69716

UniProt ID: [Q3UA06](#)
Cytogenetics: 13 40.15 cM

MW: 48.4 kDa

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]

Product images:



Circular map for MR227183