

Product datasheet for **MR214420**

Trif1 (NM_001039488) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trif1 (NM_001039488) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trif1
Synonyms:	2010012G17Rik; 4933421E11Rik; A1450568
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR214420 representing NM_001039488
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTAATAGTCTCCAGAGCGTCATTCTGAAAACCCGAGAGAAAAGTCAGGCTCGCGCTGTATTTTCAG
 GGTGCATGTACCAAGTAGTTCCTACGATTGGCAGCGATGGAAAAAACTTCTGCAATTACTTCCAATTTT
 TAAATCTTCTGGAAATCTTATCCAGTAGTTCAGTCTCCAGTCATGTCTCATGGTTTGAAAGCGAATACT
 GAAAAACCAAGTTCAAGTTACTTTTCAAACCTCAGATTTCCAGCTCTCCACAAGTGCATCTGTTCAATTGC
 CTGTTTTTCAGCCAGCCAATACTACAAAATGTTTTTTTACAGGAGCAATAGATACAACAGGAAAAGATAG
 AGTTACTTCTGTGAGGACTGGAAATTTTACACCACCAGTTTCTAACATTCAGAATCATGGTGTGAAAATT
 CATAAACTCACCAGGCAAACATTTACTATTCTCCCTCAACACAAAATGATTCATCTCATTTTTATATTCA
 ATACCCCAAGTCTCTACCAAATGTGAATCTTCAATTTTGCCTTCTGGGAATCATTTAAAGATTCCAGC
 CCATGCTGAAGTGAATCTGTACTTGCATCATCTTGCCTCCTTTGGTTCAGAAAAGATACTTGGAACT
 GCAACCACAAGTACCTCAGGAACAGTTGAGGCCTCCCAAATACCAACAGTTGTTTATGTACATCCTGTAA
 ATTCAGTGAAATTTGTTGTTACCAAGAAAACCTCAGACTATTTACCCCAAACCAAGTACATTAACCTT
 GCAAAATCCACCAAATGTTGCTACAGAAAACACAATTAAGAGTGGTCAGCATCCTCAAGCTGCTCCAGTG
 AACTCGATTTTTTCAGGAGTATCTACAGCCTGGAATCCCATGTATTATTCTGTAAAGTCTTCAAATAATG
 TGGCTACAAAGGTTTTAAACACTTTTGTAGGTAGGAAAAATCTGGGAGATAATACAATAGATACACCTCT
 GTTGAATACCAACAGTTCTGGCAGGACACACTCCGTAAGTGAACCTATTAAGATAATGCTTTGATAATG
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 CTGTTTCTTCTGATATCCACTAAAAGATTCATCACAGCTAGTAAGTTCAAGTATAGTCACAGAAATATC
 CAGAGAGATTTTTAAATAGTGTGTTGTTAAAAGTAAATCTTTTTCAGTTGAAGACAAAATCACTTTCAAAT
 TCCAGCTTGCTTCCATGGCCAATCTAAGAGCAGAGAAGAAATGAAAAAGTGGAGAGACCATTTTTCTG
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 AGACGCAGTATGAGATGGCATCAATAGTAAAAAGGAAATTCAGAAAAAGGAAATAACAAGAAATATTC
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 AACTGAGGCAGAACACTGTTCTCATGAGAAGCAGGAAAAAGGCACATTAAGTTCAAGCACATCTTTTGAA
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 CCATCAGAGATGAAAAAATAAGAAGACTTAAGCAAATTTAAGAGAAAAAAGAAGCAGCTCTTGAAGAATT
 GCGTAAGAAGATGTACCAAAAACAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR214420 representing NM_001039488
 Red=Cloning site Green=Tags(s)

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MSNSLQSVILKTAEEKSGSRCISGCMYQVVPTIGSDGKKLLQLLPISKSSGNLIPVVQSPVMSHGLKANT
EKPVQVTFQTQISSSSTSASVQLPVFQPANTTKCFFTGAI DTTGKDRVTSVRTGNFPPVMSNIQNHGVKI
HKLTRQTF TIPPSTQNDSSHFIFNTPSLLPNVNSSILPSGNHLKIPAHAEVKSVLASSLPPLVQQILGT
ATTSTSGTVEASQIPTVVVYVHPVNSVKFVVTKKQTIIYPKPVTFNLTQIPPVATETQLKGGQHPQAAPV
NSIFQEYLQPGIPCIIPVKSSNNVATKVLNTFVGRKNLGDNTIDTPLLNTNSSGRTHSVSEPIKDNALIM
FNGKVWLNKGTGCLPSKIDQQNSVSSDIPLKDSSQLVSSSIVTEISREILNSVLVKSFSFKTKTKLSLNS
SQLASMANLRAEKNEKVERPSFSVTNPHTMNQSTHCLKQSKTVFINPVFPDGFRTGQNAPRKGNLVQNIIE
KICSSVDAATVTSQQCVFRDQESQTQYEMASIVKKEIQEKGNKKYSQGSHTNIKASCLKNDAEFKLLFG
LTKDLRVCLTRIPDHLSSGKSFNSFNLMKSSSYKDANI VVKKEEKQSF SKKRKAETMKMGNTKKIKIE
NADDTVMSIMNGTDVASSQPLSSILPTSDISQHNIVTSHSTTREDKRTEAEHCSHEKQEKGLSSSTSFE
QSTFLNKNFMEDIFPVTPELEETIRDEKIRRLKQILREKEAALEELRKKMYQKQ
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_h10.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_001039488

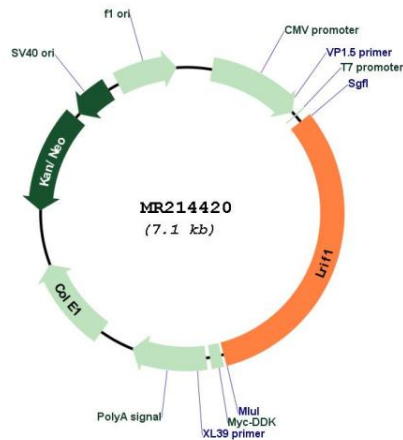
ORF Size: 2265 bp

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_001039488.1](#), [NP_001034577.1](#)
- RefSeq Size:** 3370 bp
- RefSeq ORF:** 2268 bp
- Locus ID:** 321000
- UniProt ID:** [Q8CDD9](#)
- Cytogenetics:** 3 F2.3
- MW:** 83 kDa
- Gene Summary:** Together with SMCHD1, involved in chromosome X inactivation in females by promoting the compaction of heterochromatin. Also able to repress the ligand-induced transcriptional activity of retinoic acid receptor alpha (RARA), possibly through direct recruitment of histone deacetylases.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214420