

Product datasheet for **MC228217**

Tti2 (NM_001199988) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tti2 (NM_001199988) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tti2
Synonyms:	MGC28346
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228217 representing NM_001199988
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGCTGGACAGTGCCGAAGAGAAGTCGGGGTTCGGCTGCTCCCTGCCTGCAGAGGGCTCTCCCCGG
 CCCTCGAACCAGCCTTCTCCAAGATTCTGAACCGTCTCAGCCGCCCAAAGTCATCAGGACAGGGCGGCGC
 AAGAAATGCGGCTCTAAAGACCTCGGCCTTTAATAGAAGCCGCCAAGGTGACAGATTCTTTGAGGGG
 AGTGGGAGTGGGGATCCCTCCGGGGATGCCGAGATCTGGGCAGGTGGTGAGAGCCCTGGAGAAGT
 TCGCAGCACCCGAGGAGAAGGCAGATGGGGTCAAGAGCATCCCGAAGTCCCGAGAAGGCGACTGAAGT
 TGGCTCACTGTTCTAAAGCTGTTGGGGAAGGTTGAAGCTGCCAAGAGTTCTCCGACTGCCCTGCGTGG
 AAGACAGGCCCTCCGTACATGTCAGGACCCGTATATTTTTGCCATCACTCACAGATTGAAGCAGCCAT
 GGACCAGTCCAGCATCTCAGCATGTTGCTGGTGGTGTCTTTATTGCTTAGAGTTACTGAGTGCAG
 TTCTGTGGCAGGATTCTATGCGGAGAAAATGAAGACGATCGAGGGAGATTTGCTGTGGTCTTGGGGCTT
 CTTAAGCCCCATTTGAATAAGGAAACCTGGAAGAAGAATCCTGCTGTCAAACATGTTTTCTCGTGGACTC
 TCCAACAAGTCACTCAGCCCTGGCTGAATCAGCATCTAGAAAAGATACTTCTCCGTCTTTGCTCATCTC
 AGATGACTATCAGACAGAGAATAAAATCCTGGGTGCCAGTGCCTCCATCACATTGTGGTACTGTGCCA
 GCTGCGGACTTGTGCAGTATAACAGAGCCAGGTCTGTACCACGCCCTCTCAATCACCTGTACATGC
 CTGAGCACCACCTCATTAGGCTGTGCTCCTGTGCCTCTAGACTTGTCCCTGTCTAGAGAAGGCTCT
 GCACTGGAAGGGAGACACAGCTCGAGTCACCACACACTGTCATGAAGTGTACAGCTGATCCTCACGCAC
 ATGGAACCAGAGCACCGCCTCTCTACGAGGACCTATGCCAGACACCTGCCAGCCTTCGTGAAGAGGT
 TGGGATCCTAACTGTCGGCAGTTGAAGAGGCTGGAGCAAGTTATCCTTGGTTATCTGGAGGTTTATGA
 TGAACCAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA
 TGAACCAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA
 AGAATTCCTGCAGAGTTGTGGTCTTACTGAAGGCTCTCCTGAAACTCATATGTGATATATCGAGGGATA
 CGATCCCCACAACCGAGGCCGCTAAGAGTACAATGCTCCAGGAAGCCACAGACTGCCTGATTCTCTGGA
 CCACTGTTCCAGGGCAGGTGAAGGCTTCTGGCTAAAATTGCAGTATCCTGTGAAGACAGCACAGTGT
 GTGAGTGCATCAGGAAGGTGCAGCAGGGCTCTGCAGATTCTCCTGGCGATGACTGAAGGGCCTTGTG
 GAAGGCATGGATGGGAAGTTGTAGATGTCGCCATACTGAAGAAGAAACACAGACCACCTTAACTATGC
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001199988

Insert Size: 1614 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001199988.1](#), [NP_001186917.1](#)

RefSeq Size: 4978 bp

RefSeq ORF: 1614 bp

Locus ID: 234138

Cytogenetics: 8 A3

Gene Summary: Regulator of the DNA damage response (DDR). Part of the TTT complex that is required to stabilize protein levels of the phosphatidylinositol 3-kinase-related protein kinase (PIKK) family proteins. The TTT complex is involved in the cellular resistance to DNA damage stresses, like ionizing radiation (IR), ultraviolet (UV) and mitomycin C (MMC). Together with the TTT complex and HSP90 may participate in the proper folding of newly synthesized PIKKs (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) uses an alternate splice site in the 3' coding region and includes a different terminal exon, compared to variant 2. The resulting protein (isoform b) is longer and has a distinct C-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.