

Product datasheet for MC223466

Tti1 (NM_029282) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tti1 (NM_029282) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tti1
Synonyms:	2610036D13Rik; AI449463
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223466 representing NM_029282 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTGTTTGACACTCCTGAGGAGGCTTTTGGCGTCTTACGTCGGTCTGTGTTTCAGCTCACAAGA
CCCAGACAGTGGAGAATGTGGAGCATCTGCAGACACAGTTACAAGCCATAAGTGACTGCTCTTCAGGA
ACTACAGCAGTACATCCTCTTCCCTTTGCGATTTGCCCTGAAGACCCAGGGCCAAAAGAGAGCGCCTG
GTGCAGAGTGTGGTGGAAATGTCTCACCTTTGTCCTCTCTCCACATGTGTGAGAGAGCAGGAGCTTCTGC
AGGAACTCTTCTCGGAGCTTTCTGCCTGTCTGACTCTCCAGCTCCCAGAAACCCGAGCTTTGTGAGA
GGAGTTGAAAATTGGCTGTCCAGGGACTTAGCACCTTAATGCACTCAGCTTACAGGGACATCATTCTG
ACTTTTTATGAGCCCTCCATTCTGCCTCGTTTAGGATTTGCTGTGCTTTACTGTTAGGATTGGCAGAGC
AGGAGAAGTCAAAACAGATTAATAATGCTGCCTTACAGTGTCTGCAGGTTCTCCTCCTTCAGTGTGATTG
TCAGGACCATCCAAGGCCCTTGGATGAAGTGGAGCAGCAGCAGCTGGGGATTTGTTGGCATCTTTCTTA
CCTGGGATCTCAACTGCGCTGACCAGAATCATCACAGGAGACTTAAACAAGGTCACAGCATTGTGCTGT
CTTCTCTAAAGGTCTTTTACAAGACAGTGGGCTTCATCATGGCTGATGAACAGCTCACAAGGATTCCAAA
GGCCCAAGCAAAACCTGTAGTTGAGCACAGAGTAGCAGCCCTGATGATTACAGAGAAGCAGACTGGGTA
AAAAGTACTGGTGACAAGCTGGCCATCTTTATTAATAAAGATAATTGACTGTGCTCCGTTACCCCACT
GGAAGGTGAGGCTGGAAGTGGTAGAGTTTGGGAAATCCTGCTTTGAAGTGCAGTCCCTGGTTGA
ATCCACGGGACCCCTCTTGAAGGTGTTAGTTGGCTAGTGAATGATGAAAGTCCGGAAGTCCAGGCCCGG
TGCAGTACAGTGTGAGGCGTCTTGAGATCAGAAAGTAGTAGTGGCAGCAGAGCCTTGGCTGACATCT
TGTCAGAAAGCCTGCATTCACTGGCCACGCTCTTCCCGCCTGATGAACACACAGGATGATCAGGGCAA
ATTCTCTACCCTTTCCCTGTTACTTGGGTATCTGAAACTGTTGGGCCCAAGTGCATGTGATTCTCAAT
TCTGTGGCCCATGTGCAACGCCTTCCAGGGCCCTCATCCAAGTACTGGAGCTAGAGGTGACTGATGTCA
AGATGGTGAAGAGCGGGCTGGAAGTCTGATAACCTGAGTGCTTCTGCAGAGGTCTCAGCTGCAGGCC
ATGGAGCAGAGTCCAGAGGCGATACTTCCGATGCTTCACTGACGAGAGGGTCTTCTGCTCCTTCGGAAG
ATCTGTACGCTCTGGGTATTATGGGGACCTGTATTGCTTGTGGATCACTTTATGGAAGTGTACCATA



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CATCTGTAGTTTATCGGAAGCAAGCTGCCATGATCCTTAATGAACTGGTTGTAGGGGCTGCTGGACTGGA
 TGTAGAAGATATTCATAACAAATGTCCAAGCATGGGCCAGAGGAGTTGAGAGAGATTGTGAAATCTATA
 CTAGAGGAATACACAAGCCAAGAAAACCTGGTACTTGATTACCTGTTTTGAAGCTGAGGAGGGGAGGAGG
 TGATGATGAAGCAGCAAGGCTCCAGGCTGTCACATCTGGTGTCCACACCTGCCAAGTTGTATCTTTCC
 AGCCCTGTCAAAGCCGAGTCCCCTATCTGCTCCATGAACAGTAACATCTGGCAGATATGCATTCAGTTG
 GAAGGGATTGGCCAGTTGCATATGCATTAGGAAAAGACTTTCGTTTGGCTTTTGTATGTCAGCTCTCTATC
 CAATAGCTGGAGAAGGCGGAGATCCAACCTTGCTTATTAGTCAAGTGGCTACTAGCACCATGGTAGATAT
 TTGCCACGCTTGTGGCTACAACCTGTACAACACCTGATCAATCAAAATTCAGACTATTTGGTGAATGGA
 ATCTCTTTAAATCTGCGTCACCTCGCTCTGCACCTCATGCCCAAAAAGTCTAGAAAGCCATGCTTCGGA
 ACGCGGATGCCAGCCTACTTCTTTGGTAGCAGATGTGGTTCAGGACGTCTGGCCACCCTGGACCAATT
 TTATGATAAGAGAGCTGCTTCTTTGTCAGCGTTCTGCATGCTCTGCTGGCAGCATTAGCACACTGGTTC
 CCAGACTCGGGTCTACTGGCAACTCCAACAGCGTAGTTTAGAAGAGGAGGGGAGGCAACTGCCAGCAG
 CTGGCGAGGCTAGCACCACAGCCGAGGACATCGAGCAGTTTGTACTGAGTACCTCAAGAGAAGGATGT
 GGCAGAGGGAAAATGTTTCTGACCTTGAAGCTGAAGAAGAGGTGCAGTCAGCCCTCCCAAAGTGGATGAG
 AATGACACCCTTCCAGATGTGGAACCACACTGCCAACGCACATCCAGATAGCCAAGGACGTGATGGAGC
 GCTGCATCCACTTGTGAGCAGATAAAAATCTGAAAATCCGCTGAAGGCTTGGATGTGCTGGGTTGTG
 TGTGGAGGTTCTACAGACCCACAAGAACCAGCTCCTTCCCTAGCTCATCGGGCCTGGCCTTCACTCGTA
 CACCGACTTACAAGTGTGACCCCTGGCAGTGTCTCAGAGCCTTCAAGGTTTTACAGACACTTGGAAAGCA
 GATGTGGCGATTTTCTCCGGAGTCGGTTCTGTAAGATGTCTGCCAAAACCTGACCAGCTCCTTAATCAC
 CCAGGCCCCCATCAGTGCAGGGCTGGACCAGTTTATTCTCATACACTGGCCTTCAAGCTACAGCTGGCT
 GTCTTGACAGGGCTGGGCCCCCTCTGTGAAAATCTGGACTTGGGTGAGGGTGACCTGAATAAAGTGGCTG
 ATGCTGCGTGATTTACCTCAGTACCAAACAGCCCGTGAATTAACAAGAGGCTGCCAGGAGCGTCTTCT
 CCACCTGATGAGAGTAGACCTGACTCCACCTGGCTCCTCTGCATGAGCTGTACTGCCCTGTGCAGCAA
 TTCACAGCCCCGATCCCAGCCTTCAACAGTGCAGCTGCAGGGGCCACTCAGCCACAGAACCCCTATG
 CCACCAATGTGTGCCACCTGCTTCTCAACTGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_029282

Insert Size:

3258 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).

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_029282.1](#), [NP_083558.1](#)

RefSeq Size: 3798 bp

RefSeq ORF: 3258 bp

Locus ID: 75425

UniProt ID: [Q91V83](#)

Cytogenetics: 2 H1

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. Promotes assembly, stabilizes and maintains the activity of mTORC1 and mTORC2 complexes, which regulate cell growth and survival in response to nutrient and hormonal signals (By similarity).[UniProtKB/Swiss-Prot Function]