

Product datasheet for **MC221461**

Tlk1 (NM_172664) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlk1 (NM_172664) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tlk1
Synonyms:	4930545J15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221461 representing NM_172664
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGTCCAAAGTAGCAGTGGAAAGTTTGGAGGGCCGCCATCTTGGTCCCAGGCTCTCCACGTCTCCAA
 CCCCGGGCTCGGGCGCGGCCAGGTCCCTGCTGAATCACACGCGCCATCCGGGAGGCCAGGGAAGG
 TGCAATGGATGAGCTTCACAGTCTGGACCCAAGAAGGCAAGAATTATTGGAAGCAAGATTTACTGGAGTT
 GCTACTGGGAGTACTGGGAGTACTGGGAGTTGCAGTGTGGAGCAAAAGCTTCAACAAATAATGAAAGTT
 CTAATCACAGTTTTGGAAGCTTAGGATCTTAAGTGACAAAGAATCAGAGACACCAGAGAAGAAACAATC
 AGAGTCATCCAGGGGAAGAAAGAGAAAAGCAGAAAGTCAGAATGAAAGTAGTCAGGGAAAAAGTATCGGG
 GGACGTGGCCATAAGATCAGCGACTATTTGAATACCAAGGTGGAATGGCTCGAGTCCAGTAAGAGGCA
 TCCCTCCAGCAATCCGTTCTCCGCAGAACTCACACTCACATTCCTCTCTCATCTGTTCCGACCGAA
 TAGCCCTTCTCTACTGCATTAGCTTTCCGGGACCACCCTGTTGTACAACCAAGCAGTTATCCTTTAAG
 ATCACTCAAAGTATCTTACAATGCTGAAATTGGCAGCATTAGAAAGTACTAAAAATCAAGACCTGGAGA
 AGAAGGAAGGCCGGATTGATGATCTGCTCAGGGCCAAGTGTGATCTCAGGCGCAAAATAGATGATCAACA
 GAAATTAAGTAAATAACAAGAACGATTAATAAAGTGCATATCTATGAGCAAGAACTACTTATTGAA
 AAGAGTACACAAGAAAAATTGTCTAGCAGAGAAAAGAGTATGCAAGATCGGTTGCGCCTTGGGCACTTTA
 CCACAGTTAGACACGGCGCTTCCCTTACAGAACAGTGGACAGATGGTTTTGCATTTGAGAATCTTGTGAA
 GCAACAAGAAATGGGTGAATCAACAAAGGGAAGACATTGAACGGCAAGAAAACTTCTAGGCAACGCAAA
 CCTCCACAGCTAATAATTCTCAGGCACCTGCTACCAATTCTGAAGCCAAGCAAGAAAGACCAAGGCAG
 TCAATGGAGCGGAAAACGATCCCTTTGTTAGGCCAAATTTACCACAAGTCTGACTCTGGCAGAGTATCA
 TGAACAAGAGGAAATTTTTAAACTTAGACTAGGACATCTCAAAAAGGAAGAGGCTGAAATCCAGGCGGAA
 CTGGAGCGTTTGGAGAGGGTCCGGAACCTTACATCCGAGAGCTGAAGAGAATAAACAATGAGGATAATT
 CACAGTTCAAAGATCATCCAACGTTAAATGAAAGATATTTATTACTTCATCTGCTTGGGAGAGCGGCTT
 TAGTGAGGTCTATAAGGCATTGACTTGTATGAGCAAAGATACGCTGCTGTGAAGATCCACCAGCTTAAT
 AAGAGCTGGAGAGACGAGAAGAAAGAAACTACCACAAACACGCTTCCGAGAGTATCGAATACACAAGG
 AACTGGACCACCCAGAATAGTTAAACTCTATGATTACTTCTCCTGGATACAGATACGTTTTGTACAGT
 GCTAGAGTACTGTGAAGCAATGACTTGGACTTCTACCTGAAGCAGCACAAAGTTGATGTCTGAGAAAGAA
 GCTCGGTCTATTGTGATGCAGATTGTGAATGCCTTACGCTATCTCAATGAAATCAAACCTCCTATTATAC
 ATTATGACCTTAAGCCAGGAAATATCCTTCTGGTATGATGGAACAGCATGTGGAGAAATCAAATCACTGA
 TTTTGGTCTGTCCAAGATTATGGATGACGATAGTTACGGTGTGATGGGATGGATCTGACTTCCCAGGGG
 GCAGGCACTTACTGGTATTTACCTCCTGAGTGCCTTGTAGTTGGAAAAGAGCCACCGAAGATCTCCAACA
 AGGTTGACGTGTGGTCAGTTGGGGTCACTTCTCCAGTGCCTCTATGGTAGAAAACCTTTGGTCACAA
 TCAATCTCAACAAGACATTCTACAGGAAAACACAATACTGAAAGCCACAGAAGTCCAGTTCCTGTAAAA
 CCTGTTGTAAGCAGTGAAGCCAAGGCCTCATAAGACGCTGTTTGGCTTACCGAAAAGAAGATCGATTTG
 ATGTGCACCAGCTGGCAAATGACCCATACCTTCTGCCACACATGAGAAGATCAAATCTCCAGGAAACTT
 ACATATGTCTGGGCTGACAGCAACTCCACACCTCCTTCTCAAGCATAATTACTTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_172664
Insert Size: 2301 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:	<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_172664.3 , NP_766252.2
RefSeq Size:	4050 bp
RefSeq ORF:	2301 bp
Locus ID:	228012
UniProt ID:	Q8C0V0
Cytogenetics:	2 C2
Gene Summary:	Rapidly and transiently inhibited by phosphorylation following the generation of DNA double-stranded breaks during S-phase. This is cell cycle checkpoint and ATM-pathway dependent and appears to regulate processes involved in chromatin assembly (By similarity). Isoform 3 protects the cells from the ionizing radiation by facilitating the repair of DSBs. In vitro, phosphorylates histone H3 at 'Ser-10' (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1).