

Product datasheet for **MC228760**

Tlk2 (NM_001294331) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlk2 (NM_001294331) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tlk2
Synonyms:	4933403M19Rik; PKU-alpha; PKUalpha; Tlk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228760 representing NM_001294331
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGAAGAACTGCATAGCCTGGACCCACGAAGGCAGGAATTACTAGAGGCCAGTTCCTGAGATTG
 GTGTAAGTAAGGGGCCACTCAACAGTGAGTCTTCCAACCAGAGTCTGTGCAGCGTGGGGTCGTTGAGTGA
 TAAAGAAGTAGAGACTCCTGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAAGGAAAGCCGAGCCATAT
 GACACTAGCCAAGGGAAAGGCCTCTAGGGGACATAAAATTAGTGATTACTTTGAGCGTCGAGCAGAAC
 AGCCTCTGTATGGTTTAGATGGCAGTGCAGCAAAGGAGGCCTCAGAAGAGCAGTCTGCTCTGCCACCCCT
 CATGTCAGTGATTTAGCAAACCGGACTTGACACAGAGCAGTTAGCGCCACGGGGAGCTGGCCTCTGC
 TTCCTTTCTGCTCTGCTCAACAAAACAGTCTTCTTCTACGGGTTCTGGCAATACAGAATTCTTGCA
 GCTCCAAAAACAGATCTCCATCCAGCACAGACAGACCCAGTCTGACCTCACAATAGAAAAATATCTGC
 ACTAGAAAACAGTAAGAAGTCTGACTTAGAGAAGAAGGAAGGAAGATAGATGATTTATTAAGAGCCAAC
 TGTGATTTGAGACGACAGATAGATGAACAGCAAAGATGCTAGAGAAATACAAGGAACGATTAATAGAT
 GTGTCACCATGAGCAAGAAGCTCCTTATAGAAAAGTCAAAAACAAGAGAAGATGGCGTGCAGAGATAAGAG
 CATGCAGGACCGATTGCGATTAGGCCACTTTACTACTGTCCGGCATGGAGCCTCGTTTACTGAGCAGTGG
 ACAGATGGTTATGCTTTCCAAAACCTCATCAAGCAACAGGAAAGGATAAAATTCACAGAGAGAAGAGATAG
 AAAGGCAACGGAAAAATGTTAGCAAAACGGAAACCTCCTGCCATGGGTGAGGCCCTCCTGCAACCAATGA
 GCAGAAAACCGGAAAAGCAAGACTAATGGAGCTGAAAATGAAACGTTAACGTTAGCCGAGTACCATGAA
 CAAGAGGAAATCTTCAAACCTTAGATTAGTTCATCTTAAGAAAGAGGAAGCAGAAAATCCAGGCAGAGCTGG
 AAAGGCTGGAAAGGGTTAGGAATCTACACATCAGGGAATTAAGAAAGGATACATAATGAAGACAATTCGCA
 GTTTAAAGACCATCCAACACTAAATGACAGATATTTGTTGTTACATCTTTTGGGTAGAGGAGGTTTCAGT
 GAAGTTTACAAGGCATTTGATCTAACGGAGCAAAGATATGTAGCTGTGAAAATTCACCAGTTAAATAAAA
 ACTGGAGAGATGAGAAAAAGGAGAATTACCACAAGCATGCGTGTAGGGAATACCGGATTCACAAGGAGCT
 GGACCACCCAGGATAGTGAAGCTGTATGATTACTTTTCACTGGACACTGACTCGTTTTGTACAGTATTA
 GAATACTGTGAAGGGAATGACCTGGACTTCTACCTAAAACAGCACAAAATTAATGTCGGAGAAAGAAGCCC
 GATCCATTATTATGCAGATTGTGAATGCTTTAAAGTACTTAAATGAAATAAAACCTCCCATACACTATA
 TGACCTCAAACAGGTAATATCCTTTTAGTAAATGGTACAGCATGTGGAGAGATAAAAAATACAGATTTT
 GGTCTTTCCAAGATCATGGATGATGATAGCTACAATTCAGTGGATGGCATGGAGCTGACGTACAAGGAG
 CTGGTACTTATTGGTATTTACCACCAGAGTGTGTTGTTGGTGGGAAAGAGCCACCAAAGATCTCAATAA
 AGTCGATGTTTGGTCAAGTGGGTGTGATCTTCTACCAGTGTCTTTATGGGAGGAAGCCTTTTGGCCATAAC
 CAGTCCCAGCAAGATATTCTACAAGAGAATACTATTCTTAAGGCTACTGAAGTACAGTTCGCCCAAAGC
 CAGTAGTAACACCTGAAGCAAAGGCATTATCAGGAGATGTCTGGCCTATCGAAAGGAAGATCGCATTGA
 TGTGCAGCAGCTGGCCTGTGACCCTACTTGTTCCTCACATCCGAAAGTCAGTCTCCACAAGTAGCCCT
 GCAGGAGCTGCTATTGCATCAACCTCTGGGGCATCCAATAACAGTTCTTCGAAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001294331

Insert Size: 2157 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001294331.1</u> , <u>NP_001281260.1</u>
RefSeq Size:	5494 bp
RefSeq ORF:	2157 bp
Locus ID:	24086
UniProt ID:	<u>O55047</u>
Cytogenetics:	11 E1
Gene Summary:	<p>Serine/threonine-protein kinase involved in the process of chromatin assembly and probably also DNA replication, transcription, repair, and chromosome segregation. Phosphorylates the chromatin assembly factors ASF1A AND ASF1B. Phosphorylation of ASF1A prevents its proteasome-mediated degradation, thereby enhancing chromatin assembly (By similarity). Negative regulator of amino acid starvation-induced autophagy (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (B) differs in the 5' UTR and lacks an alternate in-frame exon compared to variant A. The encoded isoform (B) is shorter than isoform A. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>