

Product datasheet for **MC228568**

Tlk2 (NM_001294329) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlk2 (NM_001294329) 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: >MC228568 representing NM_001294329
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCAGCGAAATCGGAAAAGGAAAGCCGAGCCATATGACACTAGCCAAGCGTCGAGCAGAACAGCCTC
 TGTATGGTTTAGATGGCAGTGCAGCAAAGGAGGCCTCAGAAGAGCAGTCTGCTCTGCCACCCCTCATGTC
 AGTGATGTTAGCAAAAACCGCAGCTTGACACAGAGCAGTTAGCGCCACGGGGAGCTGGCCTCTGCTTCACT
 TTCGTCTCTGCTCAACAAAACAGTCCTTCTTCTACGGGTTCTGGCAATACAGAACATTCTTGACGCTCCC
 AAAACAGATCTCCATCCAGCACAGACAGACCCAGTCTGACCTCACAAATAGAAAAAATCTGCACTAGA
 AAACAGTAAGAACTCTGACTTAGAGAAGAAGGAAGGAAGAATAGATGATTTATTAAGAGCCAACCTGTGAT
 TTGAGACGACAGATAGATGAACAGCAAAAGATGCTAGAGAATACAAGGAACGATTAATAGATGTGTCA
 CCATGAGCAAGAAGCTCCTTATAGAAAAGTCAAAACAAGAGAAGATGGCGTGCAGAGATAAGAGCATGCA
 GGACCGATTGCGATTAGGCCACTTTACTACTGTCCGGCATGGAGCCTCGTTTACTGAGCAGTGGACAGAT
 GGTATATGCTTTCCAAAACCTCATCAAGCAACAGGAAAGGATAAATTCACAGAGAGAAGAGATAGAAAAGGC
 AACGGAAAATGTTAGCAAAACGGAAACCTCCTGCCATGGGTGAGCCCTCCTGCAACCAATGAGCAGAA
 ACAACGGAAAAGCAAGACTAATGGAGCTGAAAATGAAACGTTAACGTTAGCCGAGTACCATGAACAAGAG
 GAAATCTTCAAACCTTAGATTAGGTCATCTTAAGAAAGAGGAAGCAGAAAATCCAGGCAGAGCTGAAAAGGC
 TGGAAAGGGTTAGGAATCTACACATCAGGGAATTAAGAAAGGATACATAATGAAGACAATTCGCAGTTTAA
 AGACCATCCAACCTAAATGACAGATATTTGTTGTACATCTTTTGGGTAGAGGAGGTTTCAGTGAAGTT
 TACAAGGCATTTGATCTAACGGAGCAAAGATATGTAGCTGTGAAAATTCACCAGTTAAATAAAACTGGA
 GAGATGAGAAAAAGGAGAATTACCACAAGCATGCGTGTAGGGAATACCGGATTCACAAGGAGCTGGACCA
 CCCAGGATAGTGAAGCTGTATGATTACTTTTCACTGGACACTGACTCGTTTTGTACAGTATTAGAATAC
 TGTGAAGGGAATGACCTGGACTTCTACCTAAAACAGCACAAATTAATGTCGGAGAAAAGAAGCCCGATCCA
 TTATTATGCAGATTGTGAATGCTTTAAAGTACTTAAATGAAAATAAACCTCCCATCATACACTATGACCT
 CAAACCAGGTAATATCCTTTTAGTAAATGGTACAGCATGTGGAGAGATAAAAAATTACAGATTTTGGTCTT
 TCCAAGATCATGGATGATGATAGCTACAATTCAGTGGATGGCATGGAGCTGACGTACAAGGAGCTGGTA
 CTTATTGGTATTTACCACCAGAGTGTTTTGGTGGGAAAGAGCCACCAAGATCTCAAATAAAGTCGA
 TGTTTGGTCAGTGGGTGTGATCTTACCAGTGTCTTTATGGGAGGAAGCCTTTTGGCCATAACCAGTCC
 CAGCAAGATATTCTACAAGAGAATACTATTCTTAAGGCTACTGAAGTACAGTTCCCGCCAAGCCAGTAG
 TAACACCTGAAGCAAAGGCATTTATCAGGAGATGTCTGGCTATCGAAAAGGAAGATCGCATTGATGTGCA
 GCAGCTGGCCTGTGACCCCTACTTGTTCCTCACATCCGAAAGTCAGTCTCCACAAGTAGCCCTGCAGGA
 GCTGCTATTGCATCAACCTCTGGGGCATCCAATAACAGTCTTTCGAAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001294329

Insert Size: 1941 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.
RefSeq:	<u>NM_001294329.1, NP_001281258.1</u>
RefSeq Size:	5341 bp
RefSeq ORF:	1941 bp
Locus ID:	24086
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 (C) differs in the 5' UTR and lacks two alternate exons in the coding region compared to variant A; the 5'-most initiation codon, as used in variant A, is associated with a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the alternate AUG to encode an isoform (C) that has a distinct N-terminus, and is shorter, compared to 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>