

Product datasheet for **MC228535**

Tlk2 (NM_001294330) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlk2 (NM_001294330) 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: >MC228535 representing NM_001294330
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGAAGAACTGCATAGCCTGGACCCACGAAGGCAGGAATTACTAGAGGCCAGTTCACTGGAGTTG
 GTGTAAGTAAGGGGCCACTCAACAGTGAGTCTTCCAACCAGAGTCTGTGCAGCGTGGGGTCGTTGAGTGA
 TAAAGAAGTAGAGACTCCTGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAGGAAAGCCGAGCCATAT
 GACACTAGCCAAGGAAAGGCCTCTAGGGGACATAAAATTAGTGATTACTTTGAGCGTCGAGCAGAAC
 AGCCTCTGTATGGTTTAGATGGCAGTGCAGCAAAGGAGGCCTCAGAAGAGCAGTCTGCTCTGCCACCCCT
 CATGTCAGTGATTTAGCAAACCCGCGACTTGACACAGAGCAGTTAGCGCCACGGGGAGCTGGCCTCTGC
 TTCCTTTCTGCTCTTCTGACCTACAATAGAAAAATATCTGCACTAGAAAACAGTAAGAACTCTGACT
 TAGAGAAGAAGGAAGGAAGAATAGATGATTTAATAGAGCCAACGTGATTTGAGACGACAGATAGATGA
 ACAGCAAAAGATGCTAGAGAAATACAAGGAACGATTAATAGATGTGCACCATGAGCAAGAAGCTCCTT
 ATAGAAAAGTCAAAACAAGAGAAGATGGCGTGCAGAGATAAGAGCATGCAGGACCGATTGCGATTAGGCC
 ACTTTACTACTGTCCGGCATGGAGCCTCGTTTACTGAGCAGTGGACAGATGGTTATGCTTTCCAAAACCT
 CATCAAGCAACAGGAAAGGATAAATTCACAGAGAGAAGAGATAGAAAAGGCAACGGAAAATGTTAGCAAAA
 CGGAAACCTCCTGCCATGGGTCAGGCCCTCCTGCAACCAATGAGCAGAAAACCGGAAAAGCAAGACTA
 ATGGAGCTGAAAATGAAACGTTAACGTTAGCCGAGTACCATGAACAAGAGGAAATCTTCAAACCTTAGATT
 AGGTCACTTAAGAAAGAGGAAGCAGAAATCCAGGCAGAGCTGGAAAGGCTGGAAAGGTTAGGAATCTA
 CACATCAGGGAATTAAGAAAGGATACATAATGAAGCAATTCGCAGTTTAAAGACCATCCAACACTAAATG
 ACAGATATTTGTTGTTACATCTTTGGGTAGAGGAGTTTCAGTGAAGTTTACAAGGCATTTGATCTAAC
 GGAGCAAAAGATATGTAGCTGTGAAAATTCACCAGTTAAATAAAAACCTGGAGAGATGAGAAAAAGGAGAAT
 TACCACAAGCATGCGTGTAGGGAATACCGATTACAAGGAGCTGGACCACCCAGGATAGTGAAGCTGT
 ATGATTACTTTTCACTGGACTGACTCGTTTTGTACAGTATTAGAATACTGTGAAGGGAATGACCTGGA
 CTTCTACCTAAAACAGCACAAATTAATGTCGGAGAAAAGAAGCCCGATCCATTATTATGCAGATTGTGAAT
 GCTTTAAAGTACTTAAATGAAATAAAACCTCCCATCATACTATGACCTCAAACCAGGTAATATCCTTT
 TAGTAAATGGTACAGCATGTGGAGAGATAAAAATTACAGATTTTGGTCTTCCAAGATCATGGATGATGA
 TAGCTACAATTCAGTGGATGGCATGGAGCTGACGTACAAGGAGCTGGTACTTATTGGTATTTACCACCA
 GAGTGTGTTTGGTGGGAAAGAGCCACCAAGATCTCAATAAAGTCGATGTTTGGTCAGTGGGTGTGA
 TCTTCTACCAGTGTCTTTATGGGAGGAAGGTGAGGAAGAAGGCAGTGGAGCAGCCTGGGGCCATACCCAC
 CACCTCACTGGGATTCTTCTTTCAGATTAATCATTGGAATCCTGAAAGTAGTGGTTAAAGAAAATACAG
 ACTTCTCAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001294330

Insert Size: 1902 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_001294330.1, NP_001281259.1</u>
RefSeq Size:	3250 bp
RefSeq ORF:	1902 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 (D) lacks two alternate in-frame exons in the 5' coding region and its 3' terminal exon extends past a splice site that is used in variant A. This results in a novel 3' coding region and 3' UTR compared to variant A. The encoded isoform (D) is shorter, 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.</p>