

Product datasheet for **MC221296**

Tlk2 (NM_001112705) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Tlk2 (NM_001112705) 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: >MC221296 representing NM_001112705
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGAAGAACTGCATAGCCTGGACCCACGAAGGCAGGAATTACTAGAGGCCAGTTCACTGGAGTTG
 GTGTAAGTAAGGGGCCACTCAACAGTGAGTCTTCCAACCAGAGTCTGTGCAGCGTGGGGTCGTTGAGTGA
 TAAAGAAGTAGAGACTCCTGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAGGAAAGCCGAGCCATAT
 GACACTAGCCAAGGAAAGGCCTCTAGGGGACATAAAATTAGTGATTACTTTGAGTTTCTGGGGGAA
 GCGGGCCAGGAACCAGCCCTGGCAGAAGTGTCCACCAGTTGCACGATCCTCACCGAACATTCCTTATC
 CAATCCCTTACCGCGTCGAGCAGAACAGCCTCTGTATGGTTTAGATGGCAGTGCAGCAAAGGAGGCCCTCA
 GAAGAGCAGTCTGCTCTGCCACCCTCATGTCACTGATGTTAGCAAAACCGCGACTTGACACAGAGCAGT
 TAGCGCCACGGGAGCTGGCCTCTGCTTCACTTTCTGCTCTGCTCAACAAAACAGTCTTCTTCTACGGG
 TTCTGGCAATACAGAATTCCTTGCAGCTCCCAAAAACAGATCTCCATCCAGCACAGACAGACCCAGTCT
 GACCTCACAATAGAAAAATATCTGCAGCTCCCAAAAACAGATCTCCATCCAGCACAGACAGACCCAGTCT
 GAATAGATGATTTAATAAGAGCCAACTGTGATTTGAGACGACAGATAGATGAACAGCAAAAAGATGCTAGA
 GAAATACAAGGAACGATTAATAGATGTGTACCATGAGCAAGAAGCTCCTTATAGAAAAGTCAAAAACA
 GAGAAGATGGCGTGCAGAGATAAGAGCATGCAGGACCGATTGCGATTAGGCCACTTTACTACTGTCCGGC
 ATGGAGCCTCGTTTACTGAGCAGTGGACAGATGGTTATGCTTTCCAAAACCTCATCAAGCAACAGGAAAG
 GATAAATTCACAGAGAGAAGAGATAGAAAGGCAACGGAAAATGTTAGCAAAACGGAAACCTCCTGCCATG
 GGTCAGGCCCTCCTGCAACCAATGAGCAGAAAACGGAAGCAAGACTAATGGAGCTGAAAAAGAAA
 CGTTAACGTTAGCCGAGTACCATGAACAAGAGGAAATCTTCAAACCTTAGATTAGGTCATCTTAAGAAAAG
 GGAAGCAGAAAATCCAGGCAGAGCTGAAAAGGCTGGAAAAGGGTTAGGAATCTACACATCAGGGAATTA
 AGGATACATAATGAAGACAATTCGAGTTTAAAGACCATCCAACACTAAATGACAGATATTTGTTGTAC
 ATCTTTGGGTAGAGGAGTTTTCAGTGAAGTTTACAAGGCATTTGATCTAACGGAGCAAAGATATGTAGC
 TGTGAAAATTCACCAGTTAAATAAAAACCTGGAGAGATGAGAAAAAGGAGAATTACCACAAGCATGCGTGT
 AGGGAATACCGGATTACAAGGAGCTGGACCACCCAGGATAGTGAAGCTGTATGATTACTTTTCACTGG
 AACTGACTCGTTTTGTACAGTATTAGAATACTGTGAAGGGAATGACCTGGACTTCTACCTAAAACAGCA
 CAAATTAATGTGCGAGAAAAGCCGATCCATTATTATGCAGATTGTGAATGCTTTAAAGTACTTAAAT
 GAAATAAAAACCTCCCATCATACTATGACCTCAAACCAGGTAATATCCTTTTAGTAAATGGTACAGCAT
 GTGGAGAGATAAAAATTACAGATTTTGGTCTTCCAAAGATCATGGATGATGATAGCTACAATTCAGTGGA
 TGGCATGGAGCTGACGTACAAGGAGCTGGTACTTATTGGTATTTACCACCAGAGTGTTTTGGTGTGGG
 AAAGAGCCACCAAAGATCTCAAATAAAGTCGATGTTTGGTCAGTGGGTGTGATCTTACCAGTGTCTTT
 ATGGGAGGAAGCCTTTTGGCCATAACCAGTCCCAGCAAGATTTCTACAAGAGAATACTATTCTTAAAGGC
 TACTGAAGTACAGTTCCCGCCAAAGCCAGTAGTAACACCTGAAGCAAAGGCATTTATCAGGAGATGTCTG
 GCCTATCGAAAGGAAGATCGATTGATGTGCAGCAGCTGGCCTGTGACCCCTACTTGTTCCTCACATCC
 GAAAGTCAGTCTCCACAAGTAGCCCTGCAGGAGCTGCTATTGCATCAACCTCTGGGGCATCCAATAACAG
 TTCTTCGAATTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001112705
Insert Size: 2253 bp

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| 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_001112705.2 , NP_001106176.1 |
| RefSeq Size: | 5481 bp |
| RefSeq ORF: | 2253 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 (A) encodes the longest 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> |