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Product datasheet for MC228707

Tlk2 (NM_001294334) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlk2 (NM_001294334) 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:

>MC228707 representing NM_001294334
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGAAGAACTGCATAGCCTGGACCCACGAAGGCAGGAATTACTAGAGGCCAGGTTCACTGGAGTTG
GTGTAAGTAAGGGGCCACTCAACAGTGAGTCTTCCAACCAGAGTCTGTGCAGCGTGGGGTCGTTGAGTGA
TAAAGAAGTAGAGACTCCTGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAGGAAAGCCGAGCCATAT
GACACTAGCCAAGGGAAAGGCACTCCTAGGGGACATAAAATTAGTGATTACTTTGAGTTTGCTGGGGGAA
GCGGGCCAGGAACCAGCCCTGGCAGAAGTGTTCCACCAGTTGCACGATCCTCACCGCAACATTCCTTATC
CAATCCCTTACCGCGTCGAGCAGAACAGCCTCTGTATGGTTTAGATGGCAGTGCAGCAAAGGAGGCCTCA
GAAGAGCAGTCTGCTCTGCCCACCCTCATGTCAGTGATGTTAGCAAAACCGCGACTTGACACAGAGCAGT
TAGCGCCACGGGGAGCTGGCCTCTGCTTCACTTTCGTCTCTGCTCAACAAAACAGTCCTTCTTCTACGGG
TTCTGGCAATACAGAACATTCTTGCAGCTCCCAAAAACAGATCTCCATCCAGCACAGACAGACCCAGTCT
GACCTCACAATAGAAAAAATATCTGCACTAGAAAACAGTAAGAACTCTGACTTAGAGAAGAAGGAAGGAA
GAATAGATGATTTATTAAGAGCCAACTGTGATTTGAGACGACAGATAGATGAACAGCAAAAGATGCTAGA
GAAATACAAGGAACGATTAAATAGATGTGTCACCATGAGCAAGAAGCTCCTTATAGAAAAGTCAAAACAA
GAGAAGATGGCGTGCAGAGATAAGAGCATGCAGGACCGATTGCGATTAGGCCACTTTACTACTGTCCGGC
ATGGAGCCTCGTTTACTGAGCAGTGGACAGATGGTTATGCTTTCCAAAACCTCATCAAGCAACAGGAAAG
GATAAATTCACAGAGAGAAGAGATAGAAAGGCAACGGAAAATGTTAGCAAAACGGAAACCTCCTGCCATG
GGTCAGGCCCCTCCTGCAACCAATGAGCAGAAACAACGGAAAAGCAAGACTAATGGAGCTGAAAATGAAA
CGTTAACGTTAGCCGAGTACCATGAACAAGAGGAAATCTTCAAACTTAGATTAGGTCATCTTAAGAAAGA
GGAAGCAGAAATCCAGGCAGAGCTGGAAAGGCTGGAAAGGGTTAGGAATCTACACATCAGGGAATTAAAA
AGGATACATAATGAAGACAATTCGCAGTTTAAAGACCATCCAACACTAAATGACAGATATTTGTTGTTAC
ATCTTTTGGGTAGAGGAGGTTTCAGTGAAGTTTACAAGGCATTTGATCTAACGGAGCAAAGATATGTAGC
TGTGAAAATTCACCAGTTAAATAAAAACTGGAGAGATGAGAAAAAGGAGAATTACCACAAGCATGCGTGT
AGGGAATACCGGATTCACAAGGAGCTGGACCACCCCAGGATAGTGAAGCTGTATGATTACTTTTCACTGG
ACACTGACTCGTTTTGTACAGTATTAGAATACTGTGAAGGGAATGACCTGGACTTCTACCTAAAACAGCA
CAAATTAATGTCGGAGAAAGAAGCCCGATCCATTATTATGCAGATTGTGAATGCTTTAAAGTACTTAAAT
GAAATAAAACCTCCCATCATACACTATGACCTCAAACCAGGTAATATCCTTTTAGTAAATGGTACAGCAT
GTGGAGAGATAAAAATTACAGATTTTGGTCTTTCCAAGATCATGGATGATGATAGCTACAATTCAGTGGA
TGGCATGGAGCTGACGTCACAAGGAGCTGGTACTTATTGGTATTTACCACCAGAGTGTTTTGTGGTTGGG
AAAGAGCCACCAAAGATCTCAAATAAAGTCGATGTTTGGTCAGTGGGTGTGATCTTCTACCAGTGTCTTT
ATGGGAGGAAGGTGAGGAAGAAGGCAGTGGAGCAGCCTGGGGCCATACCCACCACCTCACTGGGATTCTT
CTTTGCAGTTAATCATTGGAATCCTGAAAGTAGTGGTTTAAAGAAAATACAGACTTCTCAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001294334

Insert Size: 2094 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.

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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:	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_001294334.1, NP_001281263.1
RefSeq Size:	3442 bp
RefSeq ORF:	2094 bp
Locus ID:	24086
UniProt ID:	O55047
Cytogenetics:	11 E1
Gene Summary:	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] Transcript Variant: This variant (E) contains a 3' terminal exon that 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 (E) 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.

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