

Product datasheet for **MR215864**

Tlk2 (NM_001112705) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlk2 (NM_001112705) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR215864 representing NM_001112705
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGGAAGAACTGCATAGCCTGGACCCACGAAGGCAGGAATTACTAGAGGCCAGTTCACTGGAGTTG
 GTGTAAGTAAGGGGCCACTCAACAGTGAGTCTTCCAACCAGAGTCTGTGCAGCGTGGGGTCGTTGAGTGA
 TAAAGAAGTAGAGACTCCTGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAGGAAAGCCGAGCCATAT
 GACACTAGCCAAGGAAAGGCCTCTAGGGGACATAAAATTAGTGATTACTTTGAGTTTCTGGGGAA
 GCGGGCCAGGAACCAGCCCTGGCAGAAGTGTCCACCAGTTGCACGATCCTCACCACAACATTCCTTATC
 CAATCCCTTACCGCGTCGAGCAGAACAGCCTCTGTATGGTTTAGATGGCAGTGCAGCAAAGGAGGCCCTCA
 GAAGAGCAGTCTGCTCTGCCACCCTCATGTCACTGATGTTAGCAAACCGCGACTTGACACAGAGCAGT
 TAGCGCCACGGGAGCTGGCCTCTGCTTCACTTTCGTCCTCTGCTCAACAAAACAGTCTTCTTCTACGGG
 TTCTGGCAATACAGAACATTCCTGCAGCTCCAAAAACAGATCTCCATCCAGCACAGACAGACCCAGTCT
 GACCTCACAATAGAAAAATATCTGCAGCTCCAAAAACAGTAAAGAACTCTGACTTAGAGAAGAAGGAAGGAA
 GAATAGATGATTTAATAAGAGCCAACTGTGATTTGAGACGACAGATAGATGAACAGCAAAAGATGCTAGA
 GAAATACAAGGAACGATTAATAGATGTGTCCCATGAGCAAGAAGCTCCTTATAGAAAAGTCAAAAACA
 GAGAAGATGGCGTGCAGAGATAAGAGCATGCAGGACCGATTGCGATTAGGCCACTTTACTACTGTCCGGC
 ATGGAGCCTCGTTTACTGAGCAGTGGACAGATGGTTATGCTTTCCAAAACCTCATCAAGCAACAGGAAAG
 GATAAATTCACAGAGAGAAGAGATAGAAAGGCAACGGAAAATGTTAGCAAAACGGAAACCTCCTGCCATG
 GGTCAGGCCCTCCTGCAACCAATGAGCAGAAAACCGGAAAAGCAAGACTAATGGAGCTGAAAAAGAAA
 CGTTAACGTTAGCCGAGTACCATGAACAAGAGGAAATCTTCAAACCTTAGATTAGGTCATCTTAAGAAAAG
 GGAAGCAGAAAATCCAGGCAGAGCTGAAAAGGCTGGAAAAGGTTAGGAATCTACACATCAGGGAATTA
 AGGATACATAATGAAGACAATTCGAGTAAAGACCATCCAACACTAAATGACAGATATTTGTTGTAC
 ATCTTTGGGTAGAGGAGTTTTCAGTGAAGTTTACAAGGCATTTGATCTAACGGAGCAAAGATATGTAGC
 TGTGAAAATTCACCAGTTAAATAAAAACTGGAGAGATGAGAAAAAGGAGAATTACCACAAGCATGCGTGT
 AGGGAATACCGGATTCACAAGGAGCTGGACCACCCAGGATAGTGAAGCTGTATGATTACTTTTCACTGG
 AACTGACTCGTTTTGTACAGTATTAGAATACTGTGAAGGGAATGACCTGGACTTCTACCTAAAACAGCA
 CAAATTAATGTCGAGAAAAGAGCCGATCCATTATTATGCAGATTGTGAATGCTTTAAAGTACTTAAAT
 GAAATAAAACCTCCCATCATACACTATGACCTCAAACCAGGTAATATCCTTTTAGTAAATGGTACAGCAT
 GTGGAGAGATAAAAATTACAGATTTTGGTCTTTCCAAGATCATGGATGATGATAGCTACAATTCAGTGGA
 TGGCATGGAGCTGACGTACAAGGAGCTGGTACTTATTGGTATTTACCACCAGAGTGTTTTGTGGTTGGG
 AAAGAGCCACCAAAGATCTCAAATAAAGTCGATGTTTGGTCAGTGGGTGTGATCTTACCAGTGTCTTT
 ATGGGAGGAAGCCTTTTGGCCATAACCAGTCCCAGCAAGATTTCTACAAGAGAATACTATTCTTAAAGGC
 TACTGAAGTACAGTTCCCGCCAAAGCCAGTAGTAACACCTGAAGCAAAGGCATTTATCAGGAGATGTCTG
 GCCTATCGAAAGGAAGATCGATTGATGTGCAGCAGCTGGCCTGTGACCCCTACTTGTTCCTCACATCC
 GAAAGTCAGTCTCCACAAGTAGCCCTGCAGGAGCTGCTATTGCATCAACCTCTGGGGCATCCAATAACAG
 TTCTTCGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215864 representing NM_001112705
Red=Cloning site Green=Tags(s)

MMEELHSLDPRRQELLEARFTGVGVSKGPLNSESSNQSLCSVGSLSKDKEVETPEKKQNDQRNRKRKAEPY
 DTSQKGTTPRGHKISDYFEFAGGSGPGTSPGRSVPPVARSSPQHLSNPLPRRAEQPLYGLDGSAAKEAS
 EEQSALPTLMSVMLAKPRLDTEQLAPRGAGLCTFVSAQQNSPSTGSGNTEHSCSSQKQISIQHRQTQS
 DLTIEKISALENSKNSDLEKKEGRIDLLRANCDLRRQIDEQQKMLEKYKERLNRCVTMSKLLIEKSKQ
 EKMACRDKSMQDRLRLGHFTTVRHGASFTQWTDGYAFQNLIKQQRINSQREEIERQRKMLAKRPPAM
 GQAPPATNEQKQRKSKTNGAENETLTLAEYHEQEEIFKLRLGHLKKEEAEIQAELELERLVRNLHIRELK
 RIHNEDNSQFKDHPTLNDRYLLHLLGRGGFSEVYKAFDLTEQRYVAVKIHQLNKNWRDEKKENYKHAC
 REYRIHKELDHPRIVKLYDYFSLDTSFCTVLEYCEGNDLDFYLKQHKLMSEKEARSIIIMQIVNALKYLN
 EIKPPIIHVDLPGNILLVNGTACGEIKITDFGLSKIMDDDSYNSVDGMELTSGAGTYWYLPPECFVVG
 KEPPKISNKVDVWSVGVIFYQCLYGRKPFGHNQSQQDILQENTILKATEVQFPKPVVTPEAKAFIRRCL
 AYRKEDRIDVQLACDPYLLPHIRKSVSTSSPAGAAIASTSGASNSSSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9009_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001112705

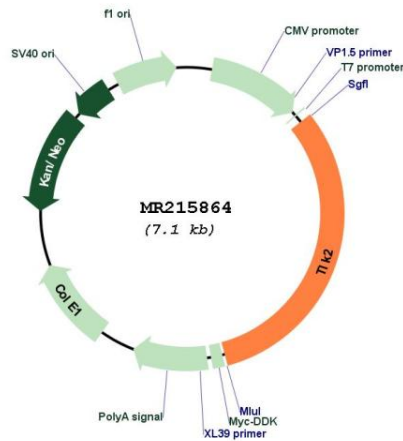
ORF Size: 2250 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001112705.2, NP_001106176.1</u>
RefSeq Size:	5475 bp
RefSeq ORF:	2253 bp
Locus ID:	24086
Cytogenetics:	11 E1
MW:	85.8 kDa
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>

Product images:



Circular map for MR215864