

## Product datasheet for **MG215868**

### Tlk2 (NM\_011903) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tlk2 (NM_011903) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tlk2
Synonyms:	4933403M19Rik; PKUalpha; Tlk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG215868 representing NM\_011903  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGGAAGAACTGCATAGCCTGGACCCACGAAGGCAGGAATTACTAGAGGCCAGTTCCTACTGGAGTTG  
 GTGTAAGTAAGGGGCCACTCAACAGTGAGTCTTCCAACCAGAGTCTGTGCAGCGTGGGGTCGTTGAGTGA  
 TAAAGAAGTAGAGACTCCTGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAGGAAAGCCGAGCCATAT  
 GACACTAGCCAAGGAAAGGCCTCTAGGGGACATAAAATTAGTGATTACTTTGAGCGTCGAGCAGAAC  
 AGCCTCTGTATGGTTTAGATGGCAGTGCAGCAAAGGAGGCCTCAGAAGAGCAGTCTGCTCTGCCACCCCT  
 CATGTCAGTGATTTAGCAAACCGCGACTTGACACAGAGCAGTTAGCGCCACGGGGAGCTGGCCTCTGC  
 TTCCTTTCTGCTCTGCTCAACAAAACAGTCTTCTTCTACGGTTCTGGCAATACAGAATTCTTGCA  
 GCTCCAAAAACAGATCTCCATCCAGCACAGACAGACCCAGTCTGACCTCACAATAGAAAAATATCTGC  
 ACTAGAAAACAGTAAGAAGTCTGACTTAGAGAAGAAGGAAGGAAGATAGATGATTTTAAAGAGCCAAC  
 TGTGATTTGAGACGACAGATAGATGAACAGCAAAGATGCTAGAGAAATACAAGGAACGATTAATAGAT  
 GTGTCACCATGAGCAAGAGCTCCTTATAGAAAAGTCAAAAACAAGAGAAGATGGCGTGCAGAGATAAGAG  
 CATGCAGGACCGATTGCGATTAGGCCACTTTACTACTGTCCGGCATGGAGCCTCGTTTACTGAGCAGTGG  
 ACAGATGGTTATGCTTTCCAAAACCTCATCAAGCAACAGGAAAGGATAAAATTCACAGAGAGAAGAGATAG  
 AAAGGCAACGGAAAAATGTTAGCAAAACGGAAACCTCCTGCCATGGGTGAGGCCCTCCTGCAACCAATGA  
 GCAGAAAACAACGGAAAAGCAAGACTAATGGAGCTGAAAATGAAACGTTAACGTTAGCCGAGTACCATGAA  
 CAAGAGGAAATCTTCAAACCTTAGATTAGTTCATCTTAAGAAAGAGGAAGCAGAAAATCCAGGCAGAGCTGG  
 AAAGGCTGGAAAGGTTAGGAATCTACACATCAGGGAATTAAGAAAGGATACATAATGAAGACAATTCGCA  
 GTTTAAAGACCATCCAACACTAAATGACAGATATTTGTTGTTACATCTTTTGGGTAGAGGAGGTTTCAGT  
 GAAGTTTACAAGGCATTTGATCTAACGGAGCAAAGATATGTAGCTGTGAAAATTCACCAAGTTAAATAAAA  
 ACTGGAGAGATGAGAAAAAGGAGAATTACCACAAGCATGCGTGTAGGGAATACCGGATTCACAAGGAGCT  
 GGACCACCCAGGATAGTGAAGCTGTATGATTACTTTTCACTGGACACTGACTCGTTTTGTACAGTATTA  
 GAATACTGTGAAGGGAATGACCTGGACTTCTACCTAAAACAGCACAAATTAATGTCGGAGAAAGAAGCCC  
 GATCCATTATTATGCAGATTGTGAATGCTTTAAAGTACTTAAATGAAATAAAACCTCCCATACACTACTA  
 TGACCTCAAACAGGTAATATCCTTTTAGTAAATGGTACAGCATGTGGAGAGATAAAAAATACAGATTTT  
 GGTCTTTCCAAGATCATGGATGATGATAGCTACAATTCAGTGGATGGCATGGAGCTGACGTCACAAGGAG  
 CTGGTACTTATTGGTATTTACCACCAGAGTGTGTTGTGGTTGGGAAAGAGCCACCAAGATCTCAATAA  
 AGTCGATGTTTGGTCAGTGGGTGTGATCTTCTACCAGTGTCTTTATGGGAGGAAGCCTTTTGGCCATAAC  
 CAGTCCCAGCAAGATATTCTACAAGAGAATACTATTCTTAAGGCTACTGAAGTACAGTTCGCCCAAAGC  
 CAGTAGTAACACCTGAAGCAAAGGCATTTATCAGGAGATGTCTGGCCTATCGAAAGGAAGATCGCATTGA  
 TGTGCAGCAGCTGGCCTGTGACCCTACTTGTTCCTCACATCCGAAAGTCAGTCTCCACAAGTAGCCCT  
 GCAGGAGCTGCTATTGCATCAACCTCTGGGCATCCAATAACAGTTCTTCGAAT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG215868 representing NM\_011903  
Red=Cloning site Green=Tags(s)

```
MMEELHSLDPRRQELLEARFTGVGVSKGPLNSESSNQSLCSVGSLSDKVEVETPEKKQNDQRNRKRKAEPY
DTSQGGKTPRGHKISDYFERRAEQPLYGLDGSAAKEASEEQSALPTLMSVMLAKPRLDTEQLAPRGAGLC
FTFVSAQQNSPSTGSGNTEHSCSSQKQISIQHRQTQSDLTIEKISALENSKNSDLEKKEGRIDDLRAN
CDLRRQIDEQQKMLEKYKERLNRVMTSKKLLIEKSKQEKMACRDKSMQDRLRLGHFTTVRHGASFTQW
TDGYAFQNLIKQERINSQREEIERQRKMLAKRPPAMGQAPPATNEQKQRKSKTNGAENETLTLAEYHE
QEEIFKLRLGHLKKEEAEIQAELERLERVRNLHIRELKRINHEDNSQFKDHPTLNDRYLLHLLGRGGFS
EYVKAFDLTEQRYVAVKIQHLNKNWRDEKKENYHKHACREYRIHKELDHPRIVKLYDYFLSDTDSFCTVL
EYCEGNLDFYKQHKLMSEKEARSIIIMQIVNALKYLNEIKPPIIHYDLKPGNILLVNGTACGEIKITDF
GLSKIMDDDSYNSVDGMELTSQGAGTYWYLPPECFVVGKEPKISNKVDVWSVGVIFYQCLYGRKPFQHN
QSQQDILQENTILKATEVQFPPKPVVTPEAKAFIRRCLAYRKEDRIDVQQLACDPYLLPHIRKSVSTSSP
AGAAIASTSGASNNSSSN
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011903

**ORF Size:** 2154 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:**

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\\_011903.3](#), [NP\\_036033.2](#)

**RefSeq Size:** 5379 bp

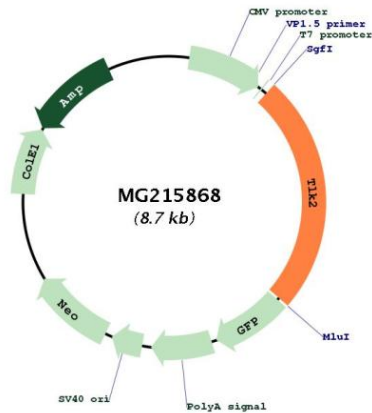
**RefSeq ORF:** 2157 bp

**Locus ID:** 24086

**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]

**Product images:**



Circular map for MG215868