

## Product datasheet for **RR217166**

### **Tlk2 (NM\_001191652) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tlk2 (NM_001191652) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tlk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RR217166 representing NM\_001191652  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGGAAGAACTGCACAGCCTGGACCCACGGAGGCAGGAGTTACTGGAGGCCAGTTCACTGGGGTTG  
GGTAAGTAAGGGGCCACTCAACAGTGAGTCTTCCAACCAGAGTTTGTGCAGTGTGGGGTCTTGAGTGA  
TAAAGAAGTAGAGACTCCTGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAAGAAAGCTGAACCATAT  
GAACTAGCCAAGGGAAAGGCCTCTAGGGGACATAAAATTAGTGATTACTTTGAGTTTGTGGGGAA  
GCGGGCCAGGAACAGCCCTGGCAGAAGTGTCCACCAGTTGCACGATCCTCACCGAACATTCTTATC  
CAATCCCTTACCGCGTCGAGTAGAACAGCCTCTCTATGGTTTAGATGGCAGTACTGCAAAGGAGGCCTCA  
GAAGAGCAGTCTGCCCTGCCAACCTCATGTCACTGATGTTAGCAAAACCTCGACTTGACACAGAGCAGT  
TAGCGCCAAGGGAGCTGGCCTCTGCTTCACTTTCTGCTCTGCTCAACAAAACAGCCCTTCTGCCACGGG  
GTCTGGCAATACAGAACATTCTGCAGCTCCAGAAAACAGATCTCCATCCAGCACAGGCAGACCCAGTCT  
GACCTCACAATAGAAAAATATCTGCACTAGAAAACAGTAAGAATCTGACTTAGAGAAGAAGGAAGGAA  
GAATAGATGATTTAATAAGAGCCAACTGTGATTTGAGACGACAGATAGATGAACAGCAAAAGATGCTAGA  
GAAATACAAGGAACGATTAATAGATGTGTACCATGAGCAAGAAGCTCCTTATAGAAAAGTCAAAAACA  
GAGAAGATGGCATGCAGGGACAAGAGCATGCAGGACCGATTGCGATTAGGTCACTTTACAACGTCCGGC  
ATGGAGCCTCTTTACTGAACAGTGGACAGATGGTTATGCTTTCCAAAACCTCATCAAGCAACAGGAAAG  
GATAAATTCACAGAGAGAAGAGATAGAAAGGCAACGGAAAATGTTAGCAAAACGGAAACCCCTGCCATG  
GGTCAGGCCCTCCCGCAACCAATGAGCAGAAAACAACGGAAAAGCAAGACCAATGGAGCTGAAAATGAAA  
CGTTAACCTTAGCTGAATACCATGAACAAGAAGAAATCTTCAAACCTTAGATTAGGTCACTTAAAGAAAGA  
GGAAGCAGAAAATCCAGGCAGAACTGAAAAGGCTAGAAAAGGTTAGGAATCTACACATCAGGGAATTA  
AGGATACATAATGAAGATAATTCACAGTTTAAAGACCACCAACACTAAATGACAGATATTTGTTGTAC  
ATCTTTGGGTAGAGGAGTTTCACTGAAGTTTACAAGCGTTTGTATCTAACGGAGCAAAGATATGTAGC  
TGTGAAAATTCACCAGTTAAATAAAAACTGGAGAGATGAGAAAAAGGAGAATTACCACAAGCATGCGTGT  
AGGGAATACCGGATTCAAAAAGAACTGGATCACCCAGAATAGTGAAGCTGTATGATTACTTTTCACTGG  
ACACTGACTCGTTTTGTACAGTATTAGAATACTGTGAAGGAAATGATCTGGACTTCTACCTAAAGCAGCA  
CAAATTAATGTCGGAGAAAAGAGCCGATCCATTATTATGCAGATTGTGAATGCTTTAAAGTACTTAAAT  
GAAATAAAACCTCCCATCATACTATGACCTCAAACCAGGTAATATCCTTTTAGTAAATGGTACAGCGT  
GTGGAGAGATAAAAATTACAGATTTTGGTCTTTCCAAGATCATGGATGACGATAGCTACAATTCAGTGGA  
CGGCATGGAGCTAACGTACAAGGTGCTGGTACTTATTGGTATTTGCCACCAGAGTGTTTTGTGGTTGGG  
AAAGAGCCACAAAGATCTCAAATAAAGTCGATGTCTGGTCAGTGGGTGTGATCTTACCAGTGTCTGT  
ATGGGAGGAAGCCTTTTGGTCAACCAGTCCCAGCAAGATTTCTACAAGAGAACTACTATTCTTAAAGC  
TACTGAAGTACAGTTCCCGCCAAAGCCAGTAGTAACACCTGAAGCAAAGGCGTTTATCAGGCGATGTTT  
GCCTATCGAAAGGAAGACCGCATTGATGTGCAGCAGCTGGCCTGTGACCCCTACTTGTTCCTCACATCC  
GAAAGTCAGTCTCCACAAGTAGTCTGCAGGAGCTGCCATTGCATCAACCTCGGGGCATCCAATAACAG  
TTCTTCGAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217166 representing NM\_001191652

Red=Cloning site Green=Tags(s)

MMEELHSLDPRRQELLEARFTGVGVSKGPLNSESSNQSLCSVGSLSKKEVETPEKKQNDQRNRKRKAEPY  
 ETSQKGTTPRGHKISDYFEFAGSGPGTSPGRSVPPVARSSPQHSLSNPLPRRVEQPLYGLDGSTAKEAS  
 EEQSALPTLMSVMLAKPRLDTEQLAPRGAGLCFTFVSAQQNSPSTGSGNTEHSCSSQKQISIQHRQTQS  
 DLTIKISALENSKNSDLEKKEGRIDLLRANCDLRQIDEQQKMLEKYKERLNRCVTMSKLLIEKSKQ  
 EKMACRDKSMQDRLRLGHFTTVRHGASFTEQWTDGYAFQNLIKQQRERINSQREEIERQRKMLAKRKPPAM  
 GQAPPATNEQKQRKSKTNGAENETLTLAEYHEQEEIFKLRLGHLKKEEAEIQAELERLERVRNLHIRELK  
 RIHNEDNSQFKDHPTLNDRYLLHLLGRGGFSEVYKAFDLTEQRYVAVKIHQLNKNWRDEKKENYHKHAC  
 REYRIHKELDHPRIVKLYDYFSLDTSFCTVLEYCEGNDLDFYKQHKLMSEKEARSIIIMQIVNALKYLN  
 EIKPPIIHVDLPGNILLVNGTACGEIKITDFGLSKIMDDDSYNSVDGMELTSQAGTYWYLPPECFVVG  
 KEPPKISNKVDVWSVGVIFYQCLYGRKPFGHNQSQQDILQENTILKATEVQFPKPVVTPPEAKAFIRRCL  
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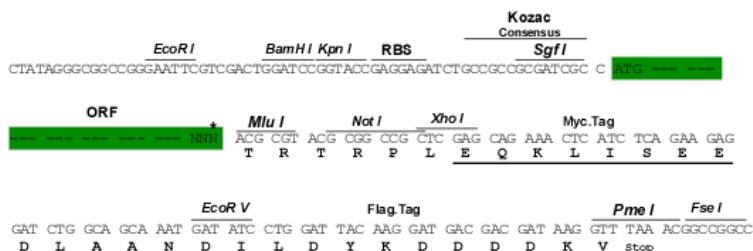
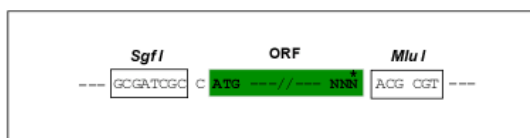
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001191652

**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:**

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\\_001191652.2](#)

**RefSeq Size:** 3689 bp

**RefSeq ORF:** 2253 bp

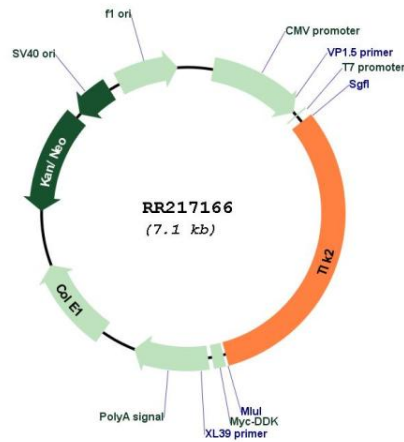
**Locus ID:** 303592

**Cytogenetics:** 10q32.1

**MW:** 85.4 kDa

**Gene Summary:** mouse homolog is a serine threonine kinase; may have a role in phosphorylations involved in regulating spermatogenesis [RGD, Feb 2006]

### Product images:



Circular map for RR217166