

## Product datasheet for **RR214291**

### **Tktl2 (NM\_001106080) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tktl2 (NM_001106080) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tktl2
Synonyms:	RGD1304767
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR214291 representing NM\_001106080  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTTGCTAGAGATGCCAAGCTGGAGTCAGACATCTTTCAGGCGCTTCAGGATGTGGCAATCGCC  
 TCGAATCCACTCAATCAGGGCCACGTGTGCCTCCAGCTCCGGACATCCCACATCGTGCTGTAGTGC  
 CGAGATCATGGCTGTGCTCTTCTCCATACCATGAGGTACAAACAGGCAGACCCAGAACACCCGGACAAC  
 GACCGCTTCGCTCTCCAAGGGCCACGCGCGCCCATCTCTATGCGGTTTGGGTGGAGGTGGCCGTA  
 TCTGTGAATCGGACTTGTGAACCTGCGAAAAATCACTGCGACCTGGAGGGTATCCCACCCCTCGGCT  
 ATCGTTTGTGGATGTTGCAACAGGGTCCCTTGGCAAGGACTGGGTGCTGCCTGCGGAATGGCTTACACC  
 GGCAAGTACTTTGACAAGGCCAGCTACCGCGTGTCTGCCTCATGGGGATGGTGTGCTCTGAAGGTT  
 CTGTCTGGGAGGCCTTGGCTTCGCTTCCACTACAAGTTGGACAATCTCTGGCAATCTTTGACGTGAA  
 CCGCTGGGGCAAAGCGGCACAGCACCCCTAGAGCACTGTACCGACATCTACGAGACGCGCTGCCAAGCG  
 TTTGGGTGGAATACTTAGCTGGTGGATGGTCACGATGTTGAAGCTCTCTGCCAGGCCTTTTGAAAGCAG  
 CTCAAGTCAAGAACAACCTACGGCCCTGATTGCCAAGACCTTCAAGGGCAGAGGTATCCAAATGTGCGA  
 GGATGCGGAAAATTGGCATGGAAGCCTATGCCGAAAGACAGAGTTGATGGAATTGTCAAATAATTGAA  
 AGTCAGATACAGACAAACCGAAATCTCACCCCGAAGCCCTGTTGAAGACTCACCCCGGATCAGCATAT  
 CCAATACGAAAATGACCTCTCTGCCTGCTTACAACTGGGAGACATGATAGTACCCGAGAAGCCTACGG  
 CGTGGCTCTGGCTAAATTGGGCCACTCTAACCAAAGAGTATTGTTTTAGATGGCGACACGAAAACTCT  
 ACCTTTTCGGAGGTATTCAAGAAAGAGCACCCCTGAGCGTTTCATAGAGTGCTTATTGCTGAGCAAAACA  
 TGGTAAGTGTGGCACTGGGGTGTGCCACAGGGCGCAACTATTGCTTTGTTAGTACTTCGCTCGCTT  
 CCTGACCCGAGCCTTTGATCAGATCCGAATGGGAGCCATCTCTCAAACCAACGTCAACTTCGTTGGTTCC  
 CACTGCGGGTGTCTATTGGAGAAGATGGACCTTCCAGATGGCCCTGGAGGATCTAGCCATGTTAGAA  
 GCATCCCCAAGTGCATTTTTCTATCCAAGCGATGCTGTCTCTACAGAACACGCCATTTATCTGGCAGC  
 CAACACCAAGGGGATGTGCTTATTCTGACCACCCGGCCAAATTAGCGGTTATTTATACATCCGAAGAA  
 AATTTTGTGATTGGACAGGCCAAGGTGATCCGCCACAGTGCAGACGACAAGGTGACAGTTGTTGGAGCAG  
 GGGTACTCTGCATGAAGCCTTAGAGGTGCTGACGAGCTTCTCAACAAGGGATTTCTATCCGTGTCAT  
 TGACCCGTTCACTATCAAACCTCTGGATGCTTCCACCATTATCCAAAGTGCCAAAGCCACAGGTGGCCAG  
 ATCATACCGTGAAGATCACTACCGAGAAGGTGGCATTGGGGAGGCTGTGTGTGCGGCCATCTCTAGAG  
 AGCCTGACATCGTCGTTCACTTGCAGTAACAGAAGTGCCTCGAAGCGGGAAACCTAGTGAAGTACT  
 GGATATGTTTGAATCAGTGCCAGACACATTATAGCAGCTGTGAAAGATACCGTAATGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214291 representing NM\_001106080  
 Red=Cloning site Green=Tags(s)

MALARDAKLESDFQALQDVANRLRIHSIRATCASSGHPTSCCSAAEIMAVLFFHTMRYKQADPEHPDN  
 DRFVLSKGHAAPILYAVWVEVGRICESDLLNLRKIHCLEGHPTPRLSFVDVATGSLGQGLGAACGMAYT  
 GKYFDKASYRVFCLMGDESSEGSVWEALAFASHYKLDNLLAIFDVNRLGQSGTAPLEHCTDIYETRCQA  
 FGWNTYVVDGHDVEALCQAFWKAQVKNKPTALIAKTFKGRGIPNVEDAENWHGKPMKDRVDGIVKLI  
 SQIQTNRNLTPKPPVEDSPRISISNTKMTSLPAYKLGDMIAATREAYGVALAKLGHNSQRVIVLDGDTKNS  
 TFSEVFKKEHPERFIECFIAEQNMVSVALGCATRGTIAFVSTFAAFLTRAFDQIRMGAIISQTNVNFVGS  
 HCVSISIGEDGPSQMALEDLAMFRSIPNCTIFYPSDAVSTEHAIIYLAANTKGMCFIRTRPKLAVIYITSEE  
 NFVIGQAKVIRHSADKVTVVAGVTLHEALEAADELSQQGISIRVIDPFTIKPLDASTIIQSAKATGGQ  
 IITVEDHYREGGIGEAVCAAISREPIDIVVHQLAVTEVPRSGKPSSELLDMFGISARHIIAAVKDVTVMK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001106080

ORF Size: 1881 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\\_001106080.1](#), [NP\\_001099550.1](#)

RefSeq Size: 2012 bp

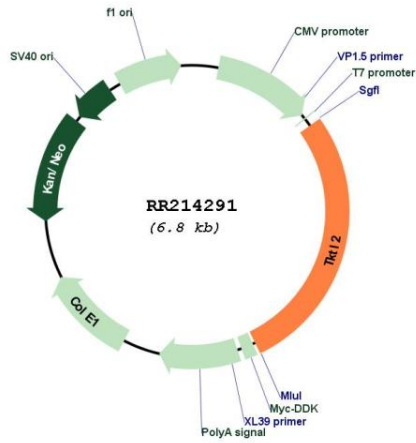
RefSeq ORF: 1884 bp

Locus ID: 290685

Cytogenetics: 16p14

MW: 68.4 kDa

Product images:



Circular map for RR214291