

Product datasheet for **MR218961**

Tktl1 (NM_031379) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Tktl1 (NM_031379) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Tktl1 |
| Synonyms: | C79967 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR218961 representing NM_031379
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGAAGCTGAGGCAAGCAGTGGGATGGCCACAACGCTGGACCTGATGAGAAGACATTGCAGGTGT
 TGCGGGACATGGCCAACCGCCTGCGAATCCGTTCCATCAAGGCCACAAATTCCTCGACCTAGCTATCT
 CATACCATGCAGCAATGCTGAGATCATGCTGTGCTGTTCTTTTATACAATGAGATATAAAACAAGAAGAC
 CCTGAAAACCCAGACAATGACCGGTGCATCCTTTCAAAGGGACTACCATTGTTAATGTGGCAACAGGAT
 GGCCTGGACAAGGACTAGGGGCTGCCTGTGGGATGGCATATACTGGCAAGTACTTTGACCAAGCCAGCTA
 CCGGTGTTCTGTCTTCTGGGGATGAGGAATCCACAGAAGGCTCTGTTGGGAGGCATTTGCCTTTGCA
 TCCTACTACAATTTGACAATCTTATGGCAATCTTTGATGTGAACCGCATTGGACACAGTAGCTCCATGT
 CTGTTGAGCACTGCATTGCCATCTACCAGAAGCGTTGTGAAGCCTTTGGTGGAATACTTACGTGGTGGA
 TGCCCGTGATGTCAAGACCCTGTCCATGTATTCTCACAGGCAGCTCAAGTGAGAGGCAAGCCACTGCT
 GTGGTTGCCAAAACCTTCAAGGCCCGAGGCATGCCAAATGTTGAGGATGCGGAAAGTTGGTATGGAAGGC
 CAATGCCAAAAGAAAGAGCAGATGCAATTGTCAAGTTAATTGAGAGCCAGATACAGACCAACAAAATTTCT
 TGTACCATCACCCCTATTGAGGACTCGCCTCAAATTAACATCATGAATATATGTATGACTTCGCCCCCT
 GTTTACGTAGCTGATGACAAGGTGTCTACTCAAAGAGCATGTGGTTTGGCTCTAGCTAACTGGGCCATG
 AAAATGACAGAGTTATTGTGCTGGGTAGTGACACCAAGAAGTGAATTTTTCTGACATATCAAGAAAGA
 ACACCCAGAGAGATTCATCCAGTGTGTATTGCTGAACAAAACATGGTAAATGTGGCTCTAGGATGCTCC
 ACCCGTGACCCGACCATTGTTTTGCTTACTCCTTCGCTGCCTTTTTACCCGAGCATTGTATCAGATCC
 GATTGGGAGCCATCTCTCAAATCAACATCAACCTTATTGGTTGTCAGTGCAGGATCTACTGGTGATGA
 CAACCTTACCATATGGCCCTGGAAGACCTGGCCATGTTCCGAGCAATCCCAATTGTGTGTTTTCTAT
 CCAAGTGATGCCGTCTCCACAGAACATGCTGTTTACTTAGCAGCAATACTAAGGAAATGTCTTTATTC
 GTACCAGCCAAGCAGAACTGCAATTTTACACCACTCAAGAAACCTTTAGATTGGACAGGCCAAGGT
 TGTCCGCCATAGTGACAATGACAAGGTCATAGTTATTGGAGCAGGAGTACCCTGCATGAAGCCCTAGTA
 GCTGCTGCTGAGCTCTCTAAAGAAGATATCTATCCGTGTCATTGACTTGTACCATTAAACCTCTGG
 ACATTGCCACCATCATTTCCAATGCAAAAGCCACAGGTGGCCGAATTATCACCGTGGAGGATCACTATCC
 TGAAGGTGGCATTGGAGGAGCTGTCTGTGCAGCAGTCTCCATGGAGCCTAACATTGTGGTTCATAACCTG
 GCAGTAATGGATGTCCCTCGTAGTGAAGATGCAATGAAGCACTAGATTTTTCTGGAATCAGTTCAGAC
 ACATCATTGTGGCTGTGAATGCATCTTAATGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218961 representing NM_031379
 Red=Cloning site Green=Tags(s)

MSEAEASSGMAHNAGPDEKTLQVLRDMANRLRIRSIKATNSSTTSYLIPCSNAEIMSVLFFYTMRYKQED
 PENPDNDRCILSKGLPFVNVATGWPGQLGAACGMAYTGKYFDQASYRVFCLLGDEESTEGSVWEAFafa
 SYYNLDNLMAIFDVNRIGHSSSMSVEHCIAIYQKRCEAFGWNTYVVDGRDVKTLCHVFSQAAQVRGKPTA
 VVAKTFKARGMPNVEDAESWYGRMPKERADAIVKLIESQIQTNKILVSPPIEDSPQINIMNICMTSPP
 VYVADDKVSTQRACGLALAKLGHENDRIVLGSDTKNCNFSDIFKKEHPERFIQCCIAEQNMVNVALGCS
 TRDRTIVFAYSFAAFTRAFFDQIRLGAISQININLIGCHCGVSTGDDNPYHMALEDLAFRAIPNCVVFY
 PSDAVSTEHAVYLAANTKEMCFIRTSQAETAIIYTTQETFQIGQAKVVRHSDNDKIVIVIGAVTLHEALV
 AAAELSKEDISIRVIDLFTIKPLDIATIISNAKATGGRIITVEDHYPEGGIGGAVCAAVSMEPNIVVHNL
 AVMDVPRSGRCNEALDFSGISSRHIIIVAVKCILMT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9062_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031379

ORF Size: 1785 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_031379.2](#), [NP_113556.2](#)

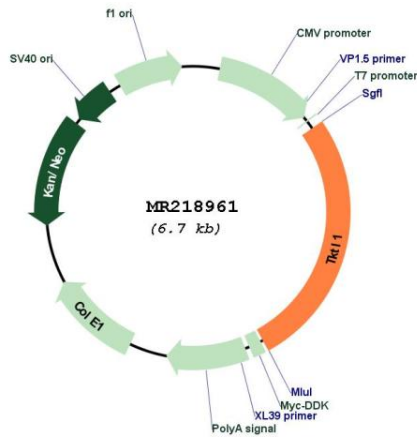
RefSeq Size: 2485 bp

RefSeq ORF: 1788 bp

Locus ID: 83553

UniProt ID: [Q99MX0](#)
 Cytogenetics: X A7.3
 MW: 65.2 kDa
 Gene Summary: Catalyzes the transfer of a two-carbon ketol group from a ketose donor to an aldose acceptor, via a covalent intermediate with the cofactor thiamine pyrophosphate. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218961