

## Product datasheet for **MG218961**

### Tktl1 (NM\_031379) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tktl1 (NM_031379) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tktl1
Synonyms:	C79967
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218961 representing NM\_031379  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGGAAGCTGAGGCAAGCAGTGGGATGGCCACAACGCTGGACCTGATGAGAAGACATTGCAGGTGT  
 TCGGGGACATGGCCAACCGCCTGCGAATCCGTTCCATCAAGGCCACAAATTCCTCGACCTAGCTATCT  
 CATAACATGCAGCAATGCTGAGATCATGCTGTGCTGTTCTTTTATACAATGAGATATAAAACAAGAAGAC  
 CCTGAAAACCCAGACAATGACCGGTGCATCCTTTCAAAGGGACTACCATTGTTAATGTGGCAACAGGAT  
 GGCCTGGACAAGGACTAGGGGCTGCCTGTGGGATGGCATATACTGGCAAGTACTTTGACCAAGCCAGCTA  
 CCGGTGTTCTGTCTTCTGGGGATGAGGAATCCACAGAAGGCTCTGTTGGGAGGCATTTGCCTTTGCA  
 TCCTACTACAATTTGACAATCTTATGGCAATCTTTGATGTGAACCGCATTGGACACAGTAGCTCCATGT  
 CTGTTGAGCACTGCATTGCCATCTACCAGAAGCGTTGTGAAGCCTTTGGTGGAATACTTACGTGGTGGAA  
 TGCCCGTGATGTCAAGACCCTGTCCATGTATTCTCACAGGCAGCTCAAGTGAGAGGCAAGCCACTGCT  
 GTGGTTGCCAAAACCTTCAAGGCCCGAGGCATGCCAAATGTTGAGGATCGGAAAAGTTGGTATGGAAGGC  
 CAATGCCAAAAGAAAGAGCAGATGCAATTGTCAAGTTAATTGAGAGCCAGATACAGACCAACAAAATTTCT  
 TGTACCATCACCCCTATTGAGGACTCGCCTCAAATTAACATCATGAATATATGTATGACTTCGCCCCCT  
 GTTTACGTAGCTGATGACAAGGTGTCTACTCAAAGAGCATGTGGTTTGGCTCTAGCTAACTGGGCCATG  
 AAAATGACAGAGTTATTGTGCTGGGTAGTGACACCAAGAAGTGAATTTTTCTGACATATCAAGAAAGA  
 ACACCCAGAGAGATTCACAGTGTGTATTGCTGAACAAAACATGGTAAATGTGGCTCTAGGATGCTCC  
 ACCCGTGACCCGACCATTGTTTTGCTTACTCCTTCGCTGCCTTTTTACCCGAGCATTGATCAGATCC  
 GATTGGGAGCCATCTCTCAAATCAACATCAACCTTATTGGTTGTCAGTGGGGGTATCTACTGGTGATGA  
 CAACCTTACCATATGGCCCTGGAAGACCTGGCCATGTTCCGAGCAATCCCAATTGTGTTGTTTTCTAT  
 CCAAGTGATGCCGTCTCCACAGAACATGCTGTTTACTTAGCAGCCAATACTAAGGAAATGTCTTTATTC  
 GTACCAGCCAAGCAGAAACTGCAATTTTACACCACTCAAGAAACCTTTAGATTGGACAGGCCAAGGT  
 TGTCCGCCATAGTGACAATGACAAGGTCATAGTTATTGGAGCAGGAGTACCCTGCATGAAGCCCTAGTA  
 GCTGCTGCTGAGCTCTCTAAAGAAGATATCTATCCGTGTCATTGACTTGTACCATTAAACCTCTGG  
 ACATTGCCACCATCATTTCCAATGCAAAAGCCACAGGTGGCCGAATTATCACCGTGGAGGATCACTATCC  
 TGAAGGTGGCATTGGAGGAGCTGTCTGTGCAGCAGTCTCCATGGAGCCTAACATTGTGGTTCATAACCTG  
 GCAGTAATGGATGTCCCTCGTAGTGAAGATGCAATGAAGCACTAGATTTTTCTGGAATCAGTCCAGAC  
 ACATCATTGTGGCTGTGAAATGCATCTTAATGACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG218961 representing NM\_031379  
 Red=Cloning site Green=Tags(s)

MSEAEASSGMAHNAGPDEKTLQVLRDMANRLRIRSIKATNSSTTSYLIPCSNAEIMSVLFFYTMRYKQED  
 PENPDNDRCILSKGLPFVNVATGWPGQGLGAACGMAYTGKYFDQASYRVFCLLGDEESTEGSVWEAFABA  
 SYYNLDNLMAIFDVNRIGHSSSMSVEHCIAIYQKRCEAFGWNTYVVDGRDVKTLCHVFSQAAQVRGKPTA  
 VVAKTFKARGMPNVEDAESWYGRMPKERADAIVKLIESQIQTNKILVSPPIEDSPQINIMNICMTSPP  
 VYVADDKVSTQRACGLALAKLGHENDRVIVLGSDTKNCNFSDFIKKEHPERFIQCCIAEQNMVNVALGCS  
 TRDRTIVFAYSFAAFFTRAFDQIRLGAISQININLIGCHCGVSTGDDNPYHMALEDLAFRAIPNCVVVY  
 PSDAVSTEHAVYLAANTKEMCFIRTSQAETAIIYTTQETFQIGQAKVVRHSDNDKVVIVIGAGVTLHEALV  
 AAAELSKEDISIRVIDLFTIKPLDIATIISNAKATGGRIITVEDHYPEGGIGGAVCAAVSMEPNIVVHNL  
 AVMDVPRSGRCNEALDFSGISSRHIIVAVKCILMT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031379.2</a> , <a href="#">NP_113556.2</a>
<b>RefSeq Size:</b>	2485 bp
<b>RefSeq ORF:</b>	1788 bp
<b>Locus ID:</b>	83553
<b>UniProt ID:</b>	<a href="#">Q99MX0</a>
<b>Cytogenetics:</b>	X A7.3
<b>Gene Summary:</b>	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]