

Product datasheet for **MC219842**

Tktl2 (NM_028927) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Tktl2 (NM_028927) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Tktl2 |
| Synonyms: | 4933401119Rik |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC219842 representing NM_028927
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTTGGCCAGAGATGCCAAGCTGGAGTCGGACACCTTTCAGGTGCTTCAGGACGTGGCCAATCGCC
 TCGAATCCACTCAATCAGGGCCACGTGTGCCTGCAGCTCCGGACATCCCACGTCGTGTAGTGTGGC
 AGAGATCATGGCTGTGCTCTTCTCCATACCATGAGGTACAAACAGGCAGACCCAGAACACCCGGACAAT
 GACCGCTTTGCTCTCCAAGGGCCACGCCGCGCCATCTCTATGCGGTTTGGGTGGAGGTGGCCGTA
 TCTGTGAATCGGACTTGTGAATTGCGAAAAATTCAGTGCACCTGGAGGGTATCCCACCCACGACT
 GTCGTTTGTGATGTGGCAACAGGGTCCCTTGGCAAGGACTGGGTGCTGCCTGTGGAATGGCTTACACC
 GGCAAATACTTTGACAAGGCCAGCTACCGCGTGTCTGCCTCATGGGGATGGTGTGCTCGGAAGGTT
 CTGTCTGGGAGGCTTGGCCTTTGCTTCCCACTACAATTGGACAATCTCGTGGCAATCTTTGACGTGAA
 CCGCTTGGGACAAAGCGGCACAGCACCCCTAGAGCACTGTACAGCCGTTTATGAGAAGCGCTGCCAAGCG
 TTTGGGTGGAATACTTAGCTGGTGGATGGTCATGATGTTGAAGCTCTCTGCCAGGCTTTTGGAAAGCAG
 CTCAAGTCAAGAATAAGCCTACTGCCCTGATTGCCAAGACCTTCAAGGTAGAGGTATTCAAAATGTGCA
 GGATGCGGAAAATTGGCATGGAAGCCTATGCCAAAAGACAGAGCTGATGGGATTGTCAAATTAATTGAG
 AATCGGATACAGACAAACCGAAATCTCACACCGAAACCCCAATTGAAGACTCGCCAGGATCAGCATGT
 CCAATACAAAAATGACCTCTCTGCCTGTCTACAACTGGGAGACATGATAGTACTCGTGAAGCATACGG
 CTTGGCTCTGGCTAAATTGGGCAATCTAACCAAAGAGTTATCGTTCTAGATGGCGACACAAAAACTCT
 ACCTTTTCAGAAGTATTCAGAAAGAGCACCCCTGAGCGTTTCATAGAGTGCTTTATCGCTGAGCAAAACA
 TGGTAAGTGTGGCCCTGGGGTGTCCACACGAGGACGAACATTTGCTTTAGTACCTTTGCTGCCTT
 CCTGACCCGAGCCTTTGATCAGATCCGAATGGGAGCCATCTCTCAAACCAACATCAACTTCGTTGGTTCC
 CACTGCGGGTGTCTGTTGGAGAAGACGGACCTTCCAGATGGCCCTGGAGGACCTAGCCATGTTAGAA
 GCATCCCCAAGTGCATGTTTTCTATCCAAGTGTGCTGTCTCGACAGAACACGCTGTTTATCTGGCAGC
 CAACACGAAGGGAATGTGCTTATTGCTACCACTCGGCCAAAAACAGCAGTTATTTATACAGCTGAAGAA
 AACTTTGTGATTGGACAGGCCAAGGTGATCCGCCAGAGTCGAGTCGACAAGGTGACAGTTATTGGAGCAG
 GGGTTACTCTGCATGAAGCCTTAGTAGTGTGAGGAGCTTCTCAACAAGGGATTTTTATTCGTGTCAT
 TGACCTGTTCACTATCAAACCTCTGGATGCTGTACCATTATCCAAAGTGCCAAAGCCACAGGTGGCCAG
 ATCATCACTGTGGAAGATCACTACCGAGAAGGTGGCATTGGTGAAGCTGTGTGTGACCCATCTCTAGAG
 AGCCTGACATAGTCGTTGCTCAACTTGACAGTAACAGAAGTACCTCGAAGCGGGAACCTAGCGAGCTACT
 GGATATGTTTGAATCAGTGCCAGACACATTATAGCAGCTGTGAAAGATACCGTAAATGAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_028927
- Insert Size:** 1884 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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).

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| Reconstitution Method: | <ol style="list-style-type: none">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_028927.3 , NP_083203.2 |
| RefSeq Size: | 2039 bp |
| RefSeq ORF: | 1884 bp |
| Locus ID: | 74419 |
| UniProt ID: | Q9D4D4 |
| Cytogenetics: | 8 B3.1 |
| Gene Summary: | <p>Plays an essential role in total transketolase activity and cell proliferation in cancer cells; after transfection with anti-TKTL1 siRNA, total transketolase activity dramatically decreases and proliferation was significantly inhibited in cancer cells. Plays a pivotal role in carcinogenesis (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript. Variants 1 and 2 encode the same protein.</p> |