

Product datasheet for **MC228513**

Tktl2 (NM_001271574) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tktl2 (NM_001271574) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tktl2
Synonyms:	4933401I19Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228513 representing NM_001271574
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCTTGGCCAGAGATGCCAAGCTGGAGTCGGACACCTTTCAGGTGCTTCAGGACGTGGCCAATCGCC
TGCGAATCCACTCAATCAGGGCCACGTGTGCCTGCAGCTCCGGACATCCCACGTCGTGCTGTAGTGTGGC
AGAGATCATGGCTGTGCTCTTCTCCATACCATGAGGTACAAACAGGCAGACCCAGAACACCCGGACAAT
GACCGCTTTGCTCTCCAAGGGCCACGCCGCGCCATCTCTATGCGGTTTGGGTGGAGGTGGGCCGTA
TCTGTGAATCGGACTTGTGAACCTGCGAAAAATTCAGTGCACCTGGAGGGTATCCCACCCACGACT
GTCGTTTGTGATGTGGCAACAGGGTCCCTTGGCAAGGACTGGGTGCTGCCTGTGGAATGGCTTACACC
GGCAAATACTTTGACAAGGCCAGCTACCGCGTGTCTGCCTCATGGGGATGGTGTGCTCGGAAGGTT
CTGTCTGGGAGGCCTTGGCCTTGTCTCCACTACAACCTGGACAATCTCGTGGCAATCTTTGACGTGAA
CCGCTTGGGACAAAGCGGCACAGCACCCCTAGAGCACTGTACAGCCGTTTATGAGAAGCGCTGCCAAGCG
TTTGGGTGGAATACTTAGTGGTGGATGGTCATGATGTTGAAGCTCTCTGCCAGGCCTTTTGAAAGCAG
CTCAAGTCAAGAATAAGCCTACTGCCCTGATTGCCAAGACCTTCAAGGTAGAGGTATTCAAAATGTGCGA
GGATGCGGAAAATGGCATGGAAGCCTATGCCAAAAGACAGAGCTGATGGGATTGTCAAATTAATTGAG
AATCGGATACAGACAAACCGAAATCTCACACCGAAACCCCAATTGAAGACTCGCCAGGATCAGCATGT
CCAATACAAAATGACCTCTCTGCCTGTCTACAACTGGGAGACATGATAGTACTCGTGAAGCATACGG
CTTGGCTCTGGCTAAATGGGCCAATCTAACCAAAGAGTTATCGTTCTAGATGGCGACACAAAAACTCT
ACCTTTTCAGAAGTATCAAGAAAGAGCACCCCTGAGCGTTTCATAGAGTGCTTTATCGCTGAGCAAAACA
TGTAAGTGTGGCCCTGGGGTGTCCACACGAGGACGAACCTATTGCTTTGTTAGTACCTTTGCTGCCTT
CTGACCCGAGCCTTTGATCAGATCCGAATGGGAGCCATCTCTCAAACCAACATCAACTTCGTTGGTTCC
CACTGCGGGTGTCTGTTGGAGAAGACGGACCTTCCAGATGGCCCTGGAGGACCTAGCCATGTTTCAGAA
GCATCCCCAAGTGCATGTTTTCTATCCAAGTGTGCTGTCTCGACAGAACACGCTGTTTATCTGGCAGC
CAACACGAAGGGAATGTGCTTATTTCGTAACCTCGGCCAAAAACAGCAGTTATTTATACAGCTGAAGAA
AACTTTGTGATTGGACAGGCCAAGGTGATCCGCCAGAGTCGAGTCGACAAGGTGACAGTTATTGGAGCAG
GGGTTACTCTGCATGAAGCCTTAGTAGTGTGAGGAGCTTCTCAACAAGGGATTTTTATTCGTGTCAT
TGACCTGTTCACTATCAAACCTCTGGATGCTGTACCATTATCCAAAGTGCCAAAGCCACAGGTGGCCAG
ATCATCACTGTGAAGATCACTACCGAGAAGGTGGCATTGGTGAAGCTGTGTGTGACCCATCTCTAGAG
AGCCTGACATAGTCGTTGCTCAACTTGCAAGTAAACAGAAGTACCTCGAAGCGGGAACCTAGCGAGCTACT
GGATATGTTTGAATCAGTGCCAGACACATTATAGCAGCTGTGAAAGATACCGTAATGAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271574

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001271574.1](#), [NP_001258503.1](#)

RefSeq Size: 6368 bp

RefSeq ORF: 1884 bp

Locus ID: 74419

UniProt ID: [Q9D4D4](#)

Cytogenetics: 8 B3.1

Gene Summary: 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]
Transcript Variant: This variant (2) contains an alternate exon structure in the 3' UTR, compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.