OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTTGGCCAGAGATGCCAAGCTGGAGTCGGACACCTTTCAGGTGCTTCAGGACGTGGCCAATCGCC
TGCGAATCCACTCAATCAGGGCCACGTGTGCCTGCAGCTCCGGACATCCCACGTCGTGCTGTAGTGTGGC
AGAGATCATGGCTGTGCTCTTCTTCCATACCATGAGGTACAAACAGGCAGACCCAGAACACCCGGACAAT
GACCGCTTTGTCCTCTCCAAGGGCCACGCCGCGCCCATCCTCTATGCGGTTTGGGTGGAGGTGGGCCGTA
TCTGTGAATCGGACTTGCTGAACTTGCGAAAAATTCACTGCGACCTGGAGGGTCATCCCACCCCACGACT
GTCGTTTGTTGATGTGGCAACAGGGTCCCTTGGGCAAGGACTGGGTGCTGCCTGTGGAATGGCTTACACC
GGCAAATACTTTGACAAGGCCAGCTACCGCGTGTTCTGCCTCATGGGGGATGGTGAGTCCTCGGAAGGTT
CTGTCTGGGAGGCCTTGGCCTTTGCTTCCCACTACAACTTGGACAATCTCGTGGCAATCTTTGACGTGAA
CCGCTTGGGACAAAGCGGCACAGCACCCCTAGAGCACTGTACAGCCGTTTATGAGAAGCGCTGCCAAGCG
TTTGGGTGGAATACTTACGTGGTGGATGGTCATGATGTTGAAGCTCTCTGCCAGGCCTTTTGGAAAGCAG
CTCAAGTCAAGAATAAGCCTACTGCCCTGATTGCCAAGACCTTCAAGGGTAGAGGTATTCCAAATGTCGA
GGATGCGGAAAATTGGCATGGAAAGCCTATGCCAAAAGACAGAGCTGATGGGATTGTCAAATTAATTGAG
AATCGGATACAGACAAACCGAAATCTCACACCGAAACCCCCCATTGAAGACTCGCCCAGGATCAGCATGT
CCAATACAAAAATGACCTCTCTGCCTGTCTACAAACTGGGAGACATGATAGCTACTCGTGAAGCATACGG
CTTGGCTCTGGCTAAATTGGGCCAATCTAACCAAAGAGTTATCGTTCTAGATGGCGACACAAAAAACTCT
ACCTTTTCAGAAGTATTCAAGAAAGAGCACCCTGAGCGTTTCATAGAGTGCTTTATCGCTGAGCAAAACA
TGGTAAGTGTGGCCCTGGGGTGTGCCACACGAGGACGAACTATTGCTTTCGTTAGTACCTTTGCTGCCTT
CCTGACCCGAGCCTTTGATCAGATCCGAATGGGAGCCATCTCTCAAACCAACATCAACTTCGTTGGTTCC
CACTGCGGGGTGTCTGTTGGAGAAGACGGACCTTCCCAGATGGCCCTGGAGGACCTAGCCATGTTCAGAA
GCATCCCCAACTGCACTGTTTTCTATCCAAGTGATGCTGTCTCGACAGAACACGCTGTTTATCTGGCAGC
CAACACGAAGGGAATGTGCTTCATTCGTACCACTCGGCCAAAAACAGCAGTTATTTATACAGCTGAAGAA
AACTTTGTGATTGGACAGGCCAAGGTGATCCGCCAGAGTGCAGTCGACAAGGTGACAGTTATTGGAGCAG
GGGTTACTCTGCATGAAGCCTTAGTAGCTGCTGAGGAGCTTTCTCAACAAGGGATTTTTATTCGTGTCAT
TGACCTGTTCACTATCAAACCTCTGGATGCTGTCACCATTATCCAAAGTGCCAAAGCCACAGGTGGCCAG
ATCATCACTGTGGAAGATCACTACCGAGAAGGTGGCATTGGTGAAGCTGTGTGTGCAGCCATCTCTAGAG
AGCCTGACATAGTCGTTCGTCAACTTGCAGTAACAGAAGTACCTCGAAGCGGGAAACCTAGCGAGCTACT
GGATATGTTTGGAATCAGTGCCAGACACATTATAGCAGCTGTGAAAGATACCGTAATGAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).

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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.

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