

Product datasheet for **SC123016**

TKTL2 (NM_032136) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TKTL2 (NM_032136) Human Untagged Clone
Tag:	Tag Free
Symbol:	TKTL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_032136 edited
AGGCGGAGGGGAGGCGAGGGCGGGCGGTACGTGAGAGCACTGCCGCGGTGGGTTGTGG
GGGTGCTCGCGGCCGCTTTGCTTTGCCAAACCGACAAAAGAGAGATGATGGCCAACGACG
CCAAGCCCAGCTGAAGACCGTGCAGGTGCTGCGGGACACAGCCAACCGCTGCGGATCC
ATTCCATCAGGGCCACGTGTGCCTCTGGTCTGGCCAGCTCACGTCGTGCTGCAGTGCAG
CGGAGGTGCTGTCTGCTCTTCTTCCACACGATGAAGTATAAACAGACAGACCCAGAAC
ACCCGGACAACGACCCGGTTCATCCTCTCCAGGGGACATGCTGCTCCTATCCTCTATGCTG
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GAAATGTTTTTTCTTTCTTGTGGCCAAACAGTTTGTAACTGATTATTTTCATCTG
CTAATGATACTAAAGTAAATGTAATAAAGCATTAAAAATCAAAAAAAAAAAAAAAAAAGAAA
AAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032136 unedited GTTGACGTTTANCATTTTGTNATACGACTCACTATAGGGCGGCCGATAACTTCGTATAG CATACATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGC GGAGGCGGAGGGGAGGGCAGGGCGGGGCGGTACAGTGAGAGCACTGCCGCGGTGGTTGT GGGGGTGCTGCGGCGCCGTTTGTCTTGCCTTCCAAACCGACAAAAGAGAGATGATGGCCAACGA CGCCAAGCCCGACGTGAAGACCGTGCAGGTGCTGCGGGACACAGCCAACCGCCTGCGGAT CCATTCCATCAGGGCCACGTGTGCCTCTGTTCTGGCCAGCTCAGTCGTGCTGCAGTGC AGCGGAGTTCGTGTCTGTCTTCTTCCACACGATGAAGTATAAACAGACAGACCCAGA ACACCCGACAAACGACCGGTTTCATCCTCTCCAGGGGACATGCTGCTCCTATCCTCTATGC TGCTTNGTGGAGGTGGGTGACATCAGTGAATCTGACTTGCTGAACCTGAGGAACTTCA CAGCGACTTGGAGAGACACCCCTACCCCGATTGCCGTTTGTGACGTGGCAACAGGGTC CCTAGGTCAGGGATTAGGTACTGCATGTGGAATGGCTTACTGGCAAGTACCTTGACAA GGCCAGTACCGGTTTCTGCCTTATGGGAGATGGCGAATCCTCAGAAGGCTCTGTGTG GGAGGCTTTTGTCTTTCCTCCACTACAATTGGACAATCTCGTGGCGTCTTCGACGT GAACCGTGGGACATAGTGGCCCTGCACCCCTTGGAGTGGCGCAGACATCTACCAGAA TTGCTGTGAAGCCTTTGGATGGNNATACTACTTAGTGGATGGCCATGATGTGGAGGCCCT GTGC
Restriction Sites:	Please inquire
ACCN:	NM_032136
Insert Size:	2778 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).
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:	<u>NM_032136.3</u> , <u>NP_115512.2</u>
RefSeq Size:	2773 bp
RefSeq ORF:	1881 bp
Locus ID:	84076
UniProt ID:	<u>Q9H0I9</u>
Cytogenetics:	4q32.2
Protein Pathways:	Metabolic pathways, Pentose phosphate pathway

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. [UniProtKB/Swiss-Prot Function]