

Product datasheet for **SC327584**

TKTL1 (NM_001145934) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TKTL1 (NM_001145934) Human Untagged Clone
Tag:	Tag Free
Symbol:	TKTL1
Synonyms:	TKR; TKT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001145934, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGTCTGTGCTGTTCTTCTACATCATGAGGTACAAGCAGTCAGATCCAGAGAATCCGGAC AACGACCGATTTGTCCTCGCAAAGACTGTCGTTTGTGGATGTGGCAACAGGATGGCTC GGACAAGGACTGGGAGTTGCATGTGGAATGGCATATACTGGCAAGTACTTCGACAGGGCC AGCTACCGGGTGTCTGCCTCAGTGTGAGTGTGGCAGTCCTCAGAAGGCTGTGCTGGGAG GCAATGGCCTTTGCTTCTACTACAGTCTGGACAATCTTGTGGCAATCTTTGATGTGAAC CGCTGGGACACAGTGGTGCATTGCCCGCCGAGCACTGCATAAACATCTATCAGAGGCGC TGCGAAGCCTTTGGGTGGAACACTTATGTGGTGGACGGCCGGGACGTGGAGGCACTGTGC CAGGTATTCTGGCAGGCTTCTCAGGTGAAGCACAAAGCCACTGCTGTGGTGGCCAAGACC TTCAAGGGCCGGGGCACCCCAAGTATTGAGGATGCAGAAAGTTGGCATGCAAAGCCAATG CCGAGAGAAAGAGCAGATGCCATTATCAAATTAATTGAGAGCCAGATACAGACCAGCAGG AATCTTGACCCACAGCCCCCATTGAGGACTCACCTGAAGTCAACATCACAGATGTAAGG ATGACCTCTCCACCTGATTACAGAGTTGGTGACAAGATAGCTACTCGGAAAGCATGCGGT CTGGCTCTGGCTAAGCTGGGCTACGCGAACAAACAGAGTCGTTGTGCTGGATGGTGACACC AGGTACTCTACTTTCTCTGAGATATTCAACAAGGAGTACCCTGAGCGCTTCATCGAGTGC TTTATGGCTGAACAAAACATGGTGAGCGTGGCTCTGGGCTGTGCCTCCCTGGACGGACC ATTGCTTTTGCTAGCACCTTTGCTGCCTTTCTGACTCGAGCATTGATCACATCCGGATA GGAGGCCCTCGCTGAGAGCAACATCAACATTATTGGTTCCTCCACTGTGGGGTATCTGTTGGT GACGATGGTGTCTCCAGATGGCCTGGAGGATATAGCCATGTTCCGAACCATTCCCAAG TGCACGATCTTCTACCCAAGTATGCGCTCTCCACGGAGCATGCTGTTGCTCTGGCAGCC AATGCCAAGGGGATGTGCTTCATTGCGACACCCGACCAGAACTATGGTTATTTACACC CCACAAGAACGCTTTGAGATCGGACAGGCAAGGTCTCCGCCACTGTGTCAGTGACAAG GTCACAGTTATTGGAGCTGGAATTACTGTGTATGAAGCCTTAGCAGCTGCTGATGAGCTT TCGAAACAAGATATTTTTATCCGTGTCATCGACCTGTTTACCATTAAACCTCTGGATGTC GCCACCATCGTCTCCAGTGCAAAAGCCACAGAGGGCCGGATCATTACAGTGGAGGATCAC TACCCGCAAGGTGGCATCGGGGAAGCTGTCTGCGCAGCCGTCTCCATGGATCCTGACATT CAGGTTTATTGCTGGCAGTGTGCGGAGTGCCCCAGAGTGGGAAGTCCGAGGAATTGCTG GATATGTATGGAATTAGTGCCAGACATATCATAGTGCCCGTGAATGCATGTTGCTGAAC </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001145934
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_001145934.1 , NP_001139406.1
RefSeq Size:	2579 bp
RefSeq ORF:	1623 bp
Locus ID:	8277
UniProt ID:	P51854
Cytogenetics:	Xq28
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pentose phosphate pathway
Gene Summary:	<p>The protein encoded by this gene is a transketolase that acts as a homodimer and catalyzes the conversion of sedoheptulose 7-phosphate and D-glyceraldehyde 3-phosphate to D-ribose 5-phosphate and D-xylulose 5-phosphate. This reaction links the pentose phosphate pathway with the glycolytic pathway. Variations in this gene may be the cause of Wernicke-Korsakoff syndrome. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (c) has a distinct N-terminus and is shorter than isoform a.</p>