

Product datasheet for **SC319310**

Transketolase (TKT) (NM_001064) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transketolase (TKT) (NM_001064) Human Untagged Clone
Tag:	Tag Free
Symbol:	Transketolase
Synonyms:	HEL-S-48; HEL107; SDDHD; TK; TKT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC319310 representing NM_001064.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGAGCTACCACAAGCCTGACCAGCAGAAGCTGCAGGCCTTGAAGGACACGGCCAACCGCCTACGT
ATCAGCTCCATCCAGGCCACCACTGCGGGGGCTCTGGCCACCCACGTCATGCTGCAGCGCCGAGAG
ATCATGGCTGTCTCTTTTTCCACACCATGCGCTACAAGTCCCAGGACCCCGGAATCCGCACAATGAC
CGCTTTGTGCTCTCCAAGGGCCATGCAGCTCCCATCCTCTACGCGGTCTGGGCTGAAGCTGGTTTCTG
GCCGAGGCGGAGCTGCTGAACCTGAGGAAGATCAGCTCCGACTTGGACGGGCACCCGGTCCCGAAACAA
GCTTTCACCGACGTGGCCACTGGCTCCCTGGGCCAGGGCCTCGGGGCGCTTGTGGGATGGCCTACACC
GGCAAATACTTCGACAAGGCCAGCTACCGAGTCTATTGCTTGTGGGAGACGGGGAGCTGTCAGAGGGC
TCTGTATGGGAGGCCATGGCCTTCGCCAGCATCTATAAGCTGGACAACCTTGTGGCCATTCTAGACATC
AATCGCCTGGGCCAGAGTGACCCGGCCCACTGCAGCACCAGATGGACATCTACCAGAAGCGGTGCGAG
GCCTTCGGTTGGCATGCCATCATCGTGGATGGACACAGCGTGGAGGAGCTGTGCAAGGCCTTTGGCCAG
GCCAAGCACCAGCCAACAGCCATCATTGCCAAGACCTTCAAGGGCCGAGGGATCACGGGGTGAAGAT
AAGGAGTCTTGGCATGGGAAGCCCTCCCAAAAACATGGCTGAGCAGATCATCCAGGAGATCTACAGC
CAGATCCAGAGCAAAAAGAGATCCTGGCAACCCCTCCACAGGAGGACGCACCCCTCAGTGGACATTGCC
AACATCCGCATGCCAGCCTGCCAGCTACAAAGTTGGGGACAAGATAGCCACCCGCAAGGCCTACGGG
CAGGCACTGGCCAAGCTGGGCCATGCCAGTGACCGCATCATCGCCCTGGATGGGGACACCAAAAATTCC
ACCTTCTCGGAGATCTTCAAAAAGGAGCACCCGGACCGCTTTCATCGAGTGTACATTGCTGAGCAGAAC
ATGGTGAGCATCGCGTGGGCTGTGCCACCCGCAACAGGACGGTGCCTTCTGCAGCACTTTTGCAGCC
TTCTTTCACGCGGGCTTTGACCAGATTCGCATGGCCGCCATCTCCGAGAGCAACATCAACCTCTGCGGC
TCCCACTCGCGGCTTTCCATCGGGGAAGACGGGCCCTCCAGATGGCCCTAGAAGATCTGGCTATGTTT
CGGTCACTCCCAACATCAACTGTCTTTTACCAAGTGATGGCGTTGCTACAGAGAAGGCAGTGGAACTA
GCCGCAATACAAAGGTATCTGCTTCCCGGACCAGCCGCCAGAAAATGCCATCATCTATAAACAC
AATGAGGACTTCCAGGTGCGACAAGCCAAGGTGGTCTGAAGAGCAAGGATGACCAGGTGACCGTTATC
GGGGCTGGGGTGACCCTGCACGAGGCCTTGGCCGCTGCCGAACTGCTGAAGAAAAGAAAAGATCAACATC
CGCGTGTGGACCCCTTACCATCAAGCCCTGGACAGAAAACCTATTCTCGACAGCGCTCGTGCCACC
AAGGGCAGGATCCTCACCGTGGAGGACCATTATTGAAGGTGGCATTGGTGAGGCTGTGTCCAGTGCA
GTAGTGGCGAGCCTGGCATCACTGTACCCACCTGGCAGTTAACGGGTACCAAGAAGTGGGAAGCCG
GCTGAGCTGCTGAAGATGTTTGGTATCGACAGGATGCCATTGCACAAGCTGTGAGGGGCCTCATACC
AAGGCCTAG
CTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGAC
GATAAGGTTTAAACGGCCGCGCGGTCTAGCTGT
  
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Restriction Sites: EcoRI-XhoI
ACCN: NM_001064
Insert Size: 1872 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:

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_001064.1](#)

RefSeq Size: 2038 bp

RefSeq ORF: 1872 bp

Locus ID: 7086

UniProt ID: [P29401](#)

Cytogenetics: 3p21.1

Domains: transketolase, transket_pyr, transketolase_C

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Pentose phosphate pathway

MW: 67.9 kDa

Gene Summary:

This gene encodes a thiamine-dependent enzyme which plays a role in the channeling of excess sugar phosphates to glycolysis in the pentose phosphate pathway. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

[provided by RefSeq, Apr 2012]

Transcript Variant: This variant (1) differs in the 3' UTR, compared to variant 2. Variants 1 and 2 encode the same isoform (1).