

Product datasheet for **SC325242**

Transketolase (TKT) (NM_001135055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transketolase (TKT) (NM_001135055) Human Untagged Clone
Tag:	Tag Free
Symbol:	TKT
Synonyms:	HEL-S-48; HEL107; SDDHD; TK; TKT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

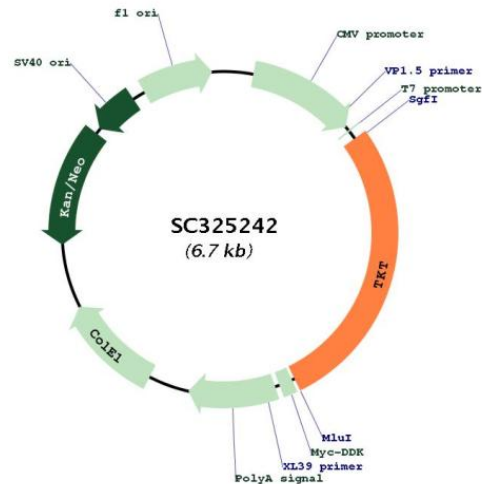


[View online »](#)

Fully Sequenced ORF: >SC325242 representing NM_001135055.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGAGCTACCACAAGCCTGACCAGCAGAAGCTGCAGGCCTTGAAGGACACGGCCAACCGCTACGT
ATCAGCTCCATCCAGGCCACCCTGCGGGGGCTCTGGCCACCCACGTCATGCTGCAGCGCCGAGAG
ATCATGGCTGTCTCTTTTTCCACACCATGCGCTACAAGTCCCAGGACCCCGGAATCCGCACAATGAC
CGCTTTGTGCTCTCCAAGGGCCATGCAGCTCCCATCCTCTACGCGGTCTGGGCTGAAGCTGGTTTCTG
GCCGAGCGGAGCTGCTGAACCTGAGGAAGATCAGCTCCGACTTGGACGGGCACCCGGTCCCGAAACAA
GCTTTCACCGACGTGGCCACTGGCTCCCTGGGCCAGGGCCTCGGGCCGCTTGTGGGATGGCCTACACC
GGCAAATACTTCGACAAGGCCAGCTACCGAGTCTATTGCTTGTGGGAGACGGGGAGCTGTCAGAGGGC
TCTGTATGGGAGGCCATGGCCTTCGCCAGCATCTATAAGCTGGACAACCTTGTGGCCATTCTAGACATC
AATCGCCTGGGCCAGAGTGACCCGGCCCACTGCAGCACCAGATGGACATCTACCAGAAGCGGTGCGAG
GCCTTCGGTTGGCATGCCATCATCGTGGATGGACACAGCGTGGAGGAGCTGTGCAAGGCCTTTGGCCAG
GCCAAGCACCCAGCAACAGCCATCATTGCCAAGACCTTCAAGGGCCGAGGGATCACGGGGGTAGAAGAT
AAGGAGTCTTGGCATGGGAAGCCCTCCCAAAAACATGGCTGAGCAGATCATCCAGGAGATCTACAGC
CAGATCCAGAGCAAAAAGAAGATCTGGCAACCCCTCCACAGGAGGACGCACCCTCAGTGGACATTGCC
AACATCCGCATGCCAGCCTGCCAGCTACAAAGTTGGGGACAAGATAGCCACCCGCAAGGCCTACGGG
CAGGCACTGGCCAAGCTGGGCCATGCCAGTGACCGCATCATCGCCCTGGATGGGGACACCAAAAATTCC
ACCTTCTCGGAGATCTTCAAAAAGGAGCACCCGGACCGCTTATCGAGTGCTACATTGCTGAGCAGAAC
ATGGTGAGCATCGCGGTGGCTGTGCCACCCGCAACAGGACGGTGCCTTCTGCAGCACTTTTGCAGCC
TTCTTACGCGGGCCTTTGACCAGATTGCGATGGCCGCCATCTCGAGAGCAACATCAACCTCTGCGGC
TCCCACTGCGGGCTTTCCATCGGGGAAGACGGGCCCTCCAGATGGCCCTAGAAGATCTGGCTATGTTT
CGGTGAGTCCCAACATCAACTGTCTTTTACCAAGTGATGGCGTTGCTACAGAGAAGGCAGTGGAACCTA
GCCGCAATACAAAGGTATCTGCTTCCATCCGGACCAGCCGCCAGAAAATGCCATCATCTATAACAAC
AATGAGGACTTCCAGGTCGGACAAGCAAGGTGGTCTGAAGAGCAAGGATGACCAGGTGACCGTTATC
GGGGCTGGGGTGACCCTGCACGAGGCCTTGGCCGCTGCCGAACTGCTGAAGAAAGAAAAGATCAACATC
CGCGTGTGGACCCCTTACCATCAAGCCCTGGACAGAAAACCTATTCTCGACAGCGCTGTGCCACC
AAGGGCAGGATCCTCACCCTGGAGGACCATTATTGAAGGTGGCATTGGTGAGGCTGTGCCAGTGCA
GTAGTGGCGGAGCCTGGCATCACTGTCAACCACCTGGCAGTTAACGGGTACCAAGAAGTGGGAAGCCG
GCTGAGCTGCTGAAGATGTTTGGTATCGACAGGGATGCCATTGCAACAAGCTGTGAGGGCCCTCATACC
AAGGCCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001135055

Insert Size: 1872 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: 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_001135055.2](#)

RefSeq Size: 2957 bp

RefSeq ORF: 1872 bp

Locus ID: 7086

UniProt ID: [P29401](#)

Cytogenetics:	3p21.1
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pentose phosphate pathway
MW:	67.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) represents the longest transcript. Variants 1 and 2 encode the same isoform (1).</p>