

## Product datasheet for **SC330630**

### Transketolase (TKT) (NM\_001258028) Human Untagged Clone

#### Product data:

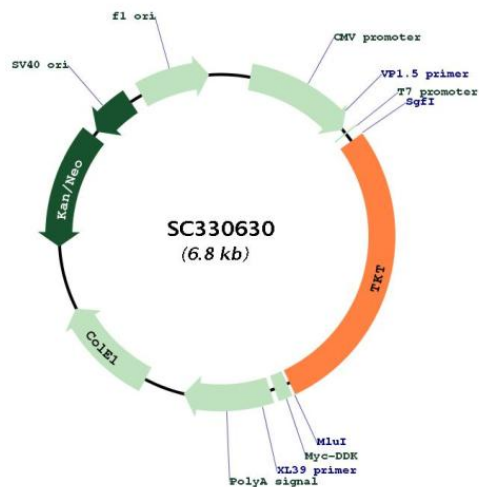
**Product Type:** Expression Plasmids  
**Product Name:** Transketolase (TKT) (NM\_001258028) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TKT  
**Synonyms:** HEL-S-48; HEL107; SDDHD; TK; TKT1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330630 representing NM\_001258028.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGAGCTACCACAAGCCTGACCAGCAGAAGCTGCAGGCCCTTGAAGGACACGGCCAACCCGCTACGT
ATCAGCTCCATCCAGGCCACCACTGCGGCGGGCTCTGGCCACCCACGTCATGCTGCAGCGCCGAGAG
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GCTTTACCGACGTGGCCACTGGCTCCCTGGGCCAGGGCTCGGGGCGCTTGTGGGATGGCCTACACC
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GAAAATGCCATCATCTATAACAACATGAGGACTTCCAGTCCGACAAGCAAGTGGTCTGAAGAGC
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CGGGTACCAAGAAGTGGGAAGCCGGCTGAGCTGCTGAAGATGTTTGGTATCGACAGGGATGCCATTGCA
CAAGCTGTGAGGGCCTCATCCAAGGCCTAG
```



Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_001258028

Insert Size: 1896 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:**

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\\_001258028.1](#)

RefSeq Size: 2203 bp

RefSeq ORF: 1896 bp

Locus ID: 7086

UniProt ID: [P29401](#)

Cytogenetics: 3p21.1

Protein Families: Druggable Genome

**Protein Pathways:** Metabolic pathways, Pentose phosphate pathway

**MW:** 68.8 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 (3) includes an alternate in-frame exon in the coding region, compared to variant 1. The encoded isoform (2) is longer than isoform 1.