

Product datasheet for **RG226037**

Transketolase (TKT) (NM_001135055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transketolase (TKT) (NM_001135055) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Transketolase
Synonyms:	HEL-S-48; HEL107; SDDHD; TK; TKT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226037 representing NM_001135055
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGCTACCACAAGCCTGACCAGCAGAAGCTGCAGGCCTTGAAGGACACGGCCAACCGCCTACGTA
 TCAGCTCCATCCAGGCCACCACTGCGGGCGGCTCTGGCCACCCACGTCATGCTGCAGCGCCGAGAGAT
 CATGGCTGTCCTCTTTTCCACACCATGCGCTACAAGTCCAGGACCCCGGAATCCGCACAATGACCGC
 TTTGTGCTCTCCAAGGGCCATGCAGCTCCATCCTCTACGCGGTCTGGGCTGAAGCTGGTTTCTGGCCG
 AGGCGGAGCTGCTGAACCTGAGGAAGATCAGCTCCGACTTGGACGGGACCCGGTCCCGAAACAAGCTTT
 CACCGACGTGGCACTGGCTCCCTGGGCCAGGGCTCGGGGCCGCTTGTGGGATGGCCTACACCGGCAAA
 TACTTCGACAAGGCCAGTACCGAGTCTATTGCTTGTGGGAGACGGGAGCTGTCAGAGGGCTCTGTAT
 GGGAGGCCATGGCCTTCGCCAGCATCTAAGCTGGACAACCTTGTGGCATTCTAGACATCAATCGCCT
 GGGCCAGAGTGACCCGGCCCCACTGCAGCACCAGATGGACATCTACCAGAAGCGGTGCGAGGCCTTCGGT
 TGGCATGCCATCATCGTGGATGGACACAGCGTGGAGGAGCTGTGAAGGCCTTTGGCCAGGCCAAGCACC
 AGCCAACAGCCATCATTGCCAAGACCTCAAGGGCCGAGGGATCACGGGGGTAGAAGATAAGGAGTCTTG
 GCATGGGAAGCCCTCCCCAAAAACATGGCTGAGCAGATCATCCAGGAGATCTACAGCCAGATCCAGAGC
 AAAAAGAAGATCTCGCAACCCCTCCACAGGAGGACGACCCCTCAGTGGACATTGCCAACATCCGCATGC
 CCAGCCTGCCAGCTACAAAGTTGGGGACAAGATAGCCACCCGCAAGGCCTACGGGCAGGCACTGGCCAA
 GCTGGGCCATGCCAGTGACCGCATCATCGCCCTGGATGGGGACACCAAAATTCACCTTCTCGGAGATC
 TTCAAAAAGGAGCACCCGGACCGCTTCATCGAGTGCTACATTGCTGAGCAGAACATGGTGAGCATCGCG
 TGGGCTGTGCCACCCGCAACAGGACGGTGCCCTTCTGCAGCACTTTTGCAGCCTTCTTACGCGGGCCTT
 TGACCAATTTCGATGGCCGCCATCTCCGAGAGCAACATCAACCTCTGCGGCTCCCACTGCGGCGTTTCC
 ATCGGGGAAGACGGGCCCTCCAGATGGCCCTAGAAGATCTGGCTATGTTTCGGTCAGTCCCCACATCAA
 CTGTCTTTTACCAAGTGATGGCGTTGTACAGAGAAGGCAGTGGAAGTACGCCCAATACAAAGGTAT
 CTGCTTCATCCGACAGCCGCCAGAAAATGCCATCATCTATAACAACATGAGGACTTCCAGGTCCGA
 CAAGCCAAGTGGTCTGAAGAGCAAGGATGACCAGGTGACCGTTATCGGGGCTGGGGTGACCCTGCACG
 AGGCCTTGGCCGCTGCCGAAGTCTGAAGAAAGAAAAGATCAACATCCGCGTGTGGACCCCTTACCAT
 CAAGCCCCTGGACAGAAAATCATTCTGCAGCGCTCGTGCCACCAAGGGCAGGATCCTACCGTGGAG
 GACCATATTATGAAGGTGGCATTGGTGAGGCTGTGTCCAGTGCAAGTGGGCGAGCCTGGCATCACTG
 TACCCACCTGGCAGTTAACCGGTACCAAGAAGTGGGAAGCCGCTGAGCTGCTGAAGATGTTTGGTAT
 CGACAGGGATGCCATTGCACAAGCTGTGAGGGGCTCATCACCAAGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226037 representing NM_001135055
 Red=Cloning site Green=Tags(s)

MESYHKPDQQLQALKDTANRLRISSIQATTAAGSGHPTSCCSAAEIMAVLFFHTMRYKSQDPRNPHNDR
 FVL SKGHAAPILYAVWAEAGFLAEALLNLRKISSDLDGHPVPKQAFDTVATGSLGQGLGAACGMAYTGK
 YFDKASYRVYCLLDGELSEGSVWEAMAFASIYKLDNLVAILDINRLGQSDPAPLQHQMDIYQKRCEAFG
 WHAIIVDGHVSVEELCKAFGQAKHQPTAIIAKTFKGRGITGVEDKESWHGKPLPKNMAEQIIQEIYSQIQS
 KKKILATPPQEDAPSVDIANIRMPSPSYKVGDKIATRKAQYQALAKLGHASDRIIALDGDTKNSTFSEI
 FKKEHPDRFIECYIAEQNMVSIIVGCAITRNRTVPFCSTFAAFFTRAQDQIRMAAISESNINLCGSHCGVS
 IGEDGPSQMALEDLAMFRSVPTSTVFYPSDGVATEKAVELAANTKGICFIRTSRPENAIYYNNNEDFQVG
 QAKVVLKSKDDQVTIVIGAGVTLHEALAAELLKKEKINIRVLDPFITKPLDRKLILDSARATKGRILTV
 DHYYEGGIGEAVSSAVVGEPIVTHLAVNRVPRSGKPAELLKMFIDRDAIAQAVRGLITKA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001135055

ORF Size: 1869 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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](#), [NP_001128527.1](#)

RefSeq Size: 2895 bp

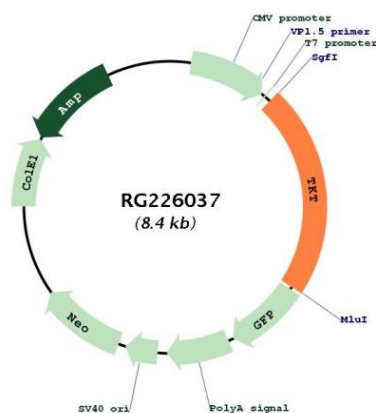
RefSeq ORF: 1872 bp

Locus ID: 7086

UniProt ID: [P29401](#)

Cytogenetics:	3p21.1
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pentose phosphate pathway
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]

Product images:



Circular map for RG226037