

Product datasheet for **MC202710**

Tkt (NM_009388) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tkt (NM_009388) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tkt
Synonyms:	p6; p68
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055336 sequence for NM_009388
 AGCCGCTGCTGGCTCTGTGTCTCTGTCTCAGCGTTCTCGTCCTCGTCCTCGTCCTACACGCC
 ATGGAAGTTACCATAAGCCAGATCAGCAGAAGCTCCAGGCCCTGAAGGACACAGCCAATCGCCTGCGCA
 TCAGCTCCATCCAGGCCACCACCGCGCAGGCTCAGGCCACCCACATCATGCTGCAGCGTGCCGAGAT
 CATGGCTGTCTGTTTTCCATACCATGCGTTACAAGGCCCTGGATCCCCGAAACCCTACAATGATCGA
 TTTGTGCTCTCTAAGGGCCATGACGCTCCCATTTTATATGCAGTCTGGGCTGAAGCTGGCTTCTACCCG
 AGGCCGAGCTGCTGAACCTGAGGAAGATCAGCTCTGACTTGGACGGGCATCCTGTCCCGAAACAAGCCTT
 CACCGATGTGGCCATGGCTCCCTGGGCCAGGGCCTGGGAGCTGCTTGGGGATGGCATACACAGGCAAA
 TACTTTGACAAAGCCAGCTACCGAGTCTATTGCATGCTGGGAGACGGGGAGGTCTCCGAGGGCTCCGCT
 GGGAGGCCATGGCCTTTGCTGGAATTTACAAGCTGGACAACCTCGTTGCCATTTTTGACATCAACCGCT
 GGGCCAGAGCGACCCAGCCCGCTGCAGCACCAGGTGGACATCTACCAGAAGCGCTGTGAGGCCCTTTGGC
 TGGCACACCATCATCGTGGACGGACACAGCGTGGAGGAGCTGTGCAAGGCCTTTGGTCAGGCCAAGCACC
 AACCAACAGCCATCATTGCCAAGACCTTCAAGGGCCGAGGGATCACAGGGATTGAAGACAAGGAGGCGTG
 GCACGGGAAGCCCTCCCAAAAACATGGCCGAGCAGATTATCCAGGAGATTTACAGCCAGGTTCCAGAGC
 AAAAGAAGATCCTGGCCAGCCCCCTCAGGAGGATGCCCATCCGTGGACATTGCTAATCCGAATGC
 CTACGCCACCCAGCTACAAAGTGGGGACAAGATAGCCACCCGGAAGGCCTATGGACTGGCCTCGCTAA
 GCTGGGCCACGCCAGTGACCGTATCATTGCCCTGGATGGAGACACCAAGAATCCACCTTCTCGGAGCTC
 TTCAAAAAGGAGCACCCAGACCGGTTTATTGAGTGTACATTGCCGAGCAAAACATGGTGAGCATTGCCG
 TGGGCTGTGCCACACGTGACCGGACAGTGCCCTTCTGCAGTACTTTTCGCGGCCTTCTTACACGGGCCTT
 CGACCAGATTCGCATGGCCGCCATCTCTGAGAGCAACATCAACCTCTGTGGCTCCCACTGTGGTGTGTCC
 ATTTGGGAAGACGGGCCCTCTCAGATGGCCCTCGAAGACCTGGCCATGTTCCGGTCAGTCCCATGTCCA
 CCGTCTTTTACCAAGCGATGGAGTTGCAACAGAGAAGGCAGTGGAGTTAGCAGCCAACAAAAGGGCAT
 TTGCTTCATCCGGACCCAGCCCGCAGAGAATGCCATTATTTATAGCAACAATGAGGATTTCCAGGTCCGC
 CAAGCCAAGGTGGTCTGAAGAGCAAGGATGACCAAGTGACAGTATCGGGGCTGGTGTAACTCTGCATG
 AGGCCCTTGGCTGCTGCAGAGAGTCTAAAGAAAGATAAGATCAGCATCCGGGTGCTGGATCCCTTCACTAT
 CAAGCCCCTGACAGGAACTCATCTAGACTCTGCCCGAGCAACCAAGGCAGGATCCTCACCGTGGAG
 GACCACTACTACGAAGGTGGCATAGGAGAGGCAGTGTCTGCTGCCGTAGTGGGTGAACCTGGAGTGACGG
 TCACTCGCTGGCTGTCAGCCAAGTACCACGAAGTGGCAAGCCAGCTGAGCTACTGAAGATGTTCCGGTAT
 TGACAAGGACGCCATTGTGCAAGCTGTGAAAGGCCTTGTACCAAGGGCTAGGGAGGGCATGGGATGCTG
 GGTGGGTGAACACTACACATTCCAGGGAGGTTCTGGCAGAGGTGGCGAAGGTGACTGAGTGGGGAGGTAAA
 TATATGTTTTGAGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_009388

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).

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: [BC055336](#), [AAH55336](#)

RefSeq Size: 2063 bp

RefSeq ORF: 1872 bp

Locus ID: 21881

UniProt ID: [P40142](#)

Cytogenetics: 14 B

Gene Summary: This gene encodes an enzyme that binds magnesium and thiamine pyrophosphate and catalyzes the transfer of sugar phosphates to an aldose acceptor. This enzyme is a key component of the pentose phosphate pathway during glycolysis. It is significantly expressed in the cornea and may be involved in the cellular response against oxidative stress. Haploinsufficiency of this gene leads to decreased growth and reduction of adipose tissue. [provided by RefSeq, Dec 2013]