TK1 cDNA Clone – Thymidine Kinase 1, Soluble (Human)

PRODUCT OVERVIEW

Product Name	TK1, cDNA Clone
Full Product Name	TK1 cDNA Clone
Product Gene Name	TK1 cdna clone
Sequence	atgagctgca ttaacctgcc cactgtgctg cctggctccc ccagcaagac ccgggggcag atccaggtga ttctcgggcc gatgttctca ggaaaaagca cagagttgat gagacgcgtc cgtcgcttcc agattgctca gtacaagtgc ctggtgatca agtatgccaa agacactcgc tacagcagca gcttctgcac acatgaccgg aacaccatgg aggcactgcc cgcctgcctg ctccgagacg tggcccagga ggccctgggc gtggctgtca taggcatcga cgaggggcag tttttccctg acatcgtgga gttctgcgag gccatggcca acgccgggaa gaccgtaatt gtggctgcac tggatgggac cttccagagg aagccatttg gggccatcct gaacctggtg ccgctggccg agagcgtggt gaagctgacg gcggtgtgca tggagtgctt ccgggaagcc gcctatacca agaggctcgg cacagagaag gaggtcgagg tgattggggg agcagacaag taccactccg tgtgtcggct ctgctacttc aagaaggcct caggccagcc tgccgggccg gacaacaaag agaactgccc agtgccagga aagccagggg aagccgtggc tgccaggaag ctctttgccc cacagcagat tctgcaatgc agccctgcca actga
Molecular Weight	25,469 Da
OMIM	188300
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TK1 cdna clone	MBS1276531 is a cDNA clone targeting TK1.
Other Notes	Small volumes of TK1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TK1. It may not necessarily be applicable to this product.

NCBI GI #	38114717
NCBI GeneID	7083
NCBI Accession #	BC007986
UniProt Secondary Accession #	Q969V0; Q9UMG9; B2RC58
UniProt Related Accession #	P04183
NCBI Official Full Name	Homo sapiens thymidine kinase 1, soluble, mRNA
NCBI Official Synonym Full Names	thymidine kinase 1
NCBI Official Symbol	TK1
NCBI Official Synonym Symbols	TK2
UniProt Protein Name	Thymidine kinase, cytosolic
Protein Family	Thymidine kinase
UniProt Gene Name	TK1

UniProt Entry Name	KITH_HUMAN
NCBI Protein Information	thymidine kinase, cytosolic
UniProt Comments for TK1	TK: cytosolic thymidine kinase. Phosphorylated during mitosis. Its enzymatic activity is high in proliferating cells and peaks during the S-phase of the cell cycle; it is very low in resting cells. Protein type: Xenobiotic Metabolism - drug metabolism - other enzymes; Nucleotide Metabolism - pyrimidine; Kinase, other; EC 2.7.1.21 Chromosomal Location of Human Ortholog: 17q23.2-q25.3 Cellular Component: cytosol Molecular Function: identical protein binding; nucleoside kinase activity; protein binding; zinc ion binding Biological Process: DNA metabolic process; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; protein homotetramerization; pyrimidine nucleoside salvage; thymidine metabolic process
Research Articles on TK1	**1.** TK1 expression is significantly different in invasive urothelial carcinoma and benign urothelium, which underlines its potential as a diagnostic marker
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