

Product datasheet for SC213453

TXK (NM_003328) Human 3' UTR Clone

Product data:

3' UTR Clones
TXK (NM_003328) Human 3' UTR Clone
ТХК
BTKL; PSCTK5; PTK4; RLK; TKL
Neomycin
pMirTarget (PS100062)
NM_003328
1274 bp

OriGene Technologies, Inc.

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Insert Sequence:	<pre>>SC213453 3'UTR clone of NM_003328 The sequence shown below is from the reference sequence of NM_003328. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GCTGTCACAGAGATTGGCGAAACCTGGTGACCGGAAACGATGCCAACCCAAAGAGTCATCTTGCAAA ACTGTCATTTATTGGAAAACCTGGTGACCGGAAACAGATGCCAACCCAAAGAGTCATCTTGCAAA ACTGTCATTTATTGTGAAAACGTGCAAGATTCACCATATGGGGTCACTTATGGTGAATATCTTTCAGAGTGC TGACTCTTGAAAACAGTGCAAAGATCACAGTTTTAAAAGTTTTAAAAATTTCAAGAATATTCAACACAAT GGTCTTTCTATGTGTGAGAGGGATTGCACACGTTTTATTGTGGGTGCTCTTCATGATCATCACCCAATG GAAGAGTGAAAAAGACTTCGCAGGAGTCTTCATTGTGGTGGTCCTTCATGATCATAGCCCAAGGAACCC TTGAGGTGCTTTCTCACAAGGCTGAGGGGCTTCCTTCTTGAAGACGAGGACCTCATCATCACCACAATG GAAGAAGTGAAAAAGACTTCGCAGGCTGCTCTCTTGTGAGGCGCACATTCATCACCTCAGTG ATCCATGCATAGAAATAGAATTAAATTCTCCCACTCATGGGGTCCTTCATGACATAGCCCAAGGACCC TTGAGGTTCTTCTTAATATAATCTCTCCCACTGTTATTAAAACGGGACTCCCTTGAAGAAGTTAGTAGTTCT GGAAATGTCTTTTGCATGGAGTTTTAAACACTGTTATAAAATGTAGCACAGGATGTCACCTTGAAA ACTGCTGGAATGCCGGGGACATTCCAGGAAAATCCGGAACCTGATTTTAGTCTGTGATTTTACACTTT TATCATGTGAGATTGGACATTTCGAGGAGGACAAAAGCCAGCTTATAAAATGTGGCCAAAGCTCACCTTGAA CAGATCCCGGTGACATTCTATTGCAGGAGACAAAAGCCAGCTTATTAAATCGAGAGCCCAATGTGACATCAGGCTCACTTG AAGATGATTGGACATTTCCAGAGAGGAGAAAAACCCGGAACCCGATTCACAGGAGCCAATGTGACATCAGGAT CTGTCCCACCCGTTATCAAGGAAGATTACCCATGAAGCCACATCACAGTTAAATCTTAACTTTAGCC TGCACTCTTTGAGAAAGCACATAAGGAAGCAAGACACACCGCAATCCACAGTTAAATCTTAACTTAGCC TGCACCCCTTTGTAGGAATGATCAGAAATTACCCATGAAGACACACGCACACACGGAGCCCATTATTTGGTA CTGTCCCACCCCGTATCCATAGTAATCACCATGAAGACACACCGCACACGCATTCACAGGAGCCAATAGGAA GAAAGATACTGGAGAATGATCAGAAATTATCCTTATCTAAGGGCTTCATTAGAGATTATTTGGTA CTGTCCCACCCCGTATCATAGTAATTGATCACCACTGAAGGCTTAATTCTCATTAGAGGACCATTATTGGTTGCATGGACATAAGGAAA ACCGCTAAGCGGCCCGGGCATCTAGATTGGAACAACACCACGCACCACGCCACCGCGCCATTATTTGGTT CTGCAGTAGCGGCCCGCGGCATCTAGATTGGAACAACACCACGCCACACGCCACCGCGCCAACCTGCACCACGCACCACGCCACCGCGCCATCAC CGGGATTTCGATGGACTTAGATTAGA</pre>
Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM 003328.3</u>

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CRIGENE TXK (NM_003328) Human 3' UTR Clone – SC213453

Non-receptor tyrosine kinase that plays a redundant role with ITK in regulation of the Summary: adaptive immune response. Regulates the development, function and differentiation of conventional T-cells and nonconventional NKT-cells. When antigen presenting cells (APC) activate T-cell receptor (TCR), a series of phosphorylation lead to the recruitment of TXK to the cell membrane, where it is phosphorylated at Tyr-420. Phosphorylation leads to TXK full activation. Contributes also to signaling from many receptors and participates in multiple downstream pathways, including regulation of the actin cytoskeleton. Like ITK, can phosphorylate PLCG1, leading to its localization in lipid rafts and activation, followed by subsequent cleavage of its substrates. In turn, the endoplasmic reticulum releases calcium in the cytoplasm and the nuclear activator of activated T-cells (NFAT) translocates into the nucleus to perform its transcriptional duty. With PARP1 and EEF1A1, TXK forms a complex that acts as a T-helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFNG to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production. Phosphorylates both PARP1 and EEF1A1. Phosphorylates also key sites in LCP2 leading to the up-regulation of Th1 preferred cytokine IL-2. Phosphorylates 'Tyr-201' of CTLA4 which leads to the association of PI-3 kinase with the CTLA4 receptor.[UniProtKB/Swiss-Prot Function] 7294 Locus ID: MW: 50.1

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