

Product datasheet for **SC323397**

STK16 (NM_003691) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK16 (NM_003691) Human Untagged Clone
Tag:	Tag Free
Symbol:	STK16
Synonyms:	FLJ39635; KRCT; KRCT, MPSK, TSF1, PKL12, FLJ39635; MPSK; PKL12; protein kinase expressed in day 12 fetal liver; serine/threonine kinase 16; TSF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323397 sequence for NM_003691 edited (data generated by NextGen Sequencing)

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ATGGGCCACGCGCTGTGTGTCTGCTCTCGGGGAAGTGCATCATTGACAATAAGCGCTAC
CTCTTCATCCAGAACTGGGGGAGGGTGGGTTCAGCTATGTGGACCTAGTGAAGGGTTA
CATGATGGACACTTCTACGCCCTGATGCGAATCCTGTGTCACGAGCAGCAGGACCGGGAG
GAGGCCAGCGAGAAGCCGACATGCATCGCCTCTTCAATCACCCCAACATCCTTCGCCTC
GTGGCTTACTGTCTGAGGGAACGGGGTCTAAGCATGAGGCCTGGCTGCTGCTACCATTC
TTCAAGAGAGGTACGCTGTGGAATGAGATAGAAAGGCTGAAGGACAAAGGCAACTTCCTG
ACCGAGGATCAAATCCTTTGGCTGCTGCTGGGGATCTGCAGAGGCCTTGAGGCCATTCAT
GCCAAGGGTTATGCCACAGAGACTTGAAGCCACCAATATATTGCTTGGAGATGAGGGG
CAGCCAGTTTTAATGGACTTGGGTTCATGAATCAAGCATGCATCCATGTGGAGGGCTCC
CGCCAGGCTCTGACCCTGCAGGACTGGGCAGCCAGCGGTGCACCATCTCCTACCGAGCC
CCAGAGCTCTTCTGTGCAGAGTCACTGTGTCATCGATGAGCGGACTGATGTCTGGTCC
CTAGGCTGCGTGTATATGCCATGATGTTTGGGAAGGCCCTTATGACATGGTGTTCAA
AAGGGTGACAGTGTGGCCCTTGCTGTGCAGAACCAACTCAGCATCCACAAAGCCCCAGG
CATTCTTCAGATTGTGGCAGCTCCTGAACTCGATGATGACCGTGGACCCGCATCAGCGT
CCTCACATTCTCCTCCTCAGTCAGCTGGAGGCGCTGCAGCCCCAGCTCCTGGCCAA
CATACTACCCAAATCTGA
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Clone variation with respect to NM_003691.2
146 a=>t;796 c=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_003691 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGCGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTTCTCTGGCCC GAGCCAGCATGATCCGCTGGGCCCCAGCGCATCTCTGGAAGAGCCCACTCACCTGGACGAGCTTTC GGTAGCCTCAGACCGTCTTGAAGAGGATGACTGAGACATTATGGGCCACGCGCTGTGTCTGTCTCG GGGAACGTGCATCATTGACAATAAGCGCTACCTCTTATCCAGAACTGGGGGAGGGTGGGGTTTCTGC TATTGTGGACCTAGTGAAGGGTTACATGATGGGACACTTTCTACCGCCCTGATGCGAATCTGGTGTCC ACGAAGCAGCAGGACCCGGGAGGAAGGCCAGCGAAGAAGCCGACATGGCATCCGCCCTTTCATTACCC CCAACCATCCTTCGCCCTTGGTGGCCTTACTGTCTAGAGGGAACGGGTGCTAAGCATGAGGCTGCCTG CTGCTCCCATTCTTAAAAAAGGTACCCGGGGGAATGAGATAAAAAGGGCTAAAGAGACAAAGGCCATTT CCTGACGAGGGATCAAACCTTTTGGTCTGGCGTGTGGGGATTCGACAGGCCCTGTGAGGCCATCTCGCCC AGGGTATATGCCACAGACATGTAGACCCACACTATATTTTGTGGATATGAGGCGCCACCTTTATAGGGC ACGTGGTCTCGAGATACTCTGCATCGTGTAGAGGCTCCACGCTCTACACCTGATGTGAACACAGTGTG CACTATCTAGACCAGAGCTTTTGTGACTCTGTCCATAGACGAGTTGTGCCACATGCGTCTCTACCA GTTGAAGC
Kinase Domain Sequence:	>SC323397 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CSACGMCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTTCTCTGGCCCCGAGCC AGCATGATCCGCTGGGCCCCAGCGCATCTCTGGAAGAGCCCACTCACCTGGACGAGCTTTCGGTAG CCTCAGACCGTCTTGAAGAGGATGACTGAGACATTATGGGCCAC
Restriction Sites:	Please inquire
ACCN:	NM_003691
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell , 2008 May p536-548.
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:	<ol style="list-style-type: none">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_003691.2 , NP_003682.2
RefSeq Size:	1682 bp

RefSeq ORF:	918 bp
Locus ID:	8576
Cytogenetics:	2q35
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>Membrane-associated protein kinase that phosphorylates on serine and threonine residues. In vitro substrates include DRG1, ENO1 and EIF4EBP1. Also autophosphorylates. May be involved in secretory vesicle trafficking or intracellular signaling. May have a role in regulating stromal-epithelial interactions that occur during ductal morphogenesis in the mammary gland. May be involved in TGF-beta signaling. Able to autophosphorylate on Tyr residue; it is however unclear whether it has tyrosine-protein kinase toward other proteins.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>