

## Product datasheet for **SC319372**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_003691.2

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GCTTCTCTCTGGCCCGAGCCAGCATGATCCGCTGGGCCCCAGCGCATCTCCTGGAAGAG
CCCCTCACCCTGGACGAGCTCTTCGGTAGCCTCAGACCGTCTTGAAGAGGATGACTGA
GACATTATGGGCCACGCGCTGTGTGTCTGCTCTCGGGAACTGTCATCATTGACAATAAG
CGCTACCTCTTTCATCCAGAAACTGGGGGAGGGTGGGTTTCAGCTATGTGGACCTAGTGAA
GGGTTACATGATGGACACTTCTACGCCCTGAAGCGAATCCTGTGTACAGCAGCAGGAC
CGGGAGGAGGCCAGCGAGAAGCCGACATGCATCGCCTCTTCAATCACCCCAACATCCTT
CGCCTCGTGGCTTACTGTCTGAGGGAACGGGTGCTAAGCATGAGGCCTGGCTGTGCTA
CCATTCTCAAGAGAGGTACGCTGTGGAATGAGATAGAAAGGCTGAAGGACAAAGGCAAC
TTCCTGACCGAGGATCAAATCCTTTGGCTGCTGCTGGGGATCTGCAGAGGCCTTGAGGCC
ATTCATGCCAAGGGTTATGCCACAGAGACTTGAAGCCCAATATATTGCTTGGAGAT
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GGCTCCCGCCAGGCTCTGACCCTGCAGGACTGGGCAGCCAGCGGTGCACCATCTCCTAC
CGAGCCCCAGAGCTCTTCTGTGCAGAGTCACTGTGTATCGATGAGCGGACTGATGTC
TGGTCCCTAGGCTGCGTGTATATGCCATGATGTTTGGGGAAGGCCCTTATGACATGGTG
TTCCAAAAGGGTGACAGTGTGGCCCTTGTGTGCAGAACCAACTCAGCATCCCACAAAGC
CCCAGGCATTCTCAGCATTGTGGCAGCTCCTGAACTCGATGATGACCGTGGACCCGCAT
CAGCGTCTCACATTCTCTCCTCCTCAGTCAGCTGGAGGCGCTGCAGCCCCAGCTCCT
GGCCAACATACTACCAAATCTGAAAAAGCAGCATGTTGAGAAGATGGCCCTTGTGCCT
TGGAAAGAGGTTCCCATCCCTCATTGGAATCACCAACCATCCATCCAGGACTTCTTTA
CACTTGGGGTAGCGGGTCCAGGACAATCATCTCAGTCTGCATCTTTTCTTCTGCTTTT
TTCCCTCCAAGAGCAAAAACCTGGGCAAGGGACTTACTGAGTGGGGTGGGTGGGGGTTG
GGAAAAGGAAACTGGTGGGATATGGAACATGGCTCTGAGCAGGACTGTTGAGCTCACAT
AGTGTCTGACTCCAATCTGGGAGCAGGAGAATGTGTAACAAGAATAAAGTGGAAAGCA
GGTTGGTGTAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_003691
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_003691.2</u> , <u>NP_003682.2</u>
<b>RefSeq Size:</b>	1682 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	8576
<b>Cytogenetics:</b>	2q35
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<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>