

Product datasheet for **MC218249**

Stk16 (BC005703) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stk16 (BC005703) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stk16
Synonyms:	Krct, EDPK, PKL12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC005703 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGCCACGCACTGTGTCTGCTCCCGGGAAGTGTGATCATTGACAATAAGCGTTACCTCTTCGTCC
AGAAATTGGGGGAAGGTGGATTCAGCTATGTGGACCTAGTGGAGGGCTTGCATGATGGACACTTCTACGC
CCTGAAGCGGATCCTGTGCCATGAGCAGCAAGACCAGGAAGAAGCCCAACGAGAGGCAGAGATGCATCGC
CTCTCCAGCATCCCAACATCCTTCGCCTCATGGCTTACTCTCTGAAAGAACGAGGTGCTAAGCATGAAG
CCTGGCTGCTGCTGCCCTTCTCAAGAAAGGTACTGTGGAATGAGATAGAAAGGCTGAAGGACCAAGG
CAGCTTCTGACTGAAGACCAGATCCTGCCGCTGTTGCTGGGTATCAGCAGAGGCCTTGAGGCTATTCAT
GCCAAAGGTTATGCACACAGGGACCTGAAGCCCAATATTTTGGCTTGGTGATGAGGGGCAGCCAGTTT
TAATGGACTTGGGTTCTATGAATCAAGCATGCATTCAAGTGGAGGGCTCTGCCAGGCACTAGCTCTTCA
GCTCTGGGCACTGTTCCAGGACTGGGCAGCTCAGCGGTGCACCATCTCCTACCGGCACCTGAACCTT
TTTCTGTGCAAAGCCACTGTGTCATCGATGAGCGGACTGATGTCTGGTCCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	BC005703
Insert Size:	684 bp



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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:	<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:	<u>BC005703</u> , <u>AAH05703</u>
RefSeq Size:	1516 bp
RefSeq ORF:	683 bp
Locus ID:	20872
Cytogenetics:	1 C4
Gene Summary:	Membrane-associated protein kinase that phosphorylates on serine and threonine residues. In vitro substrates include DRG1, ENO1 and EIF4EBP1. Also autophosphorylates (By similarity). 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. [UniProtKB/Swiss-Prot Function]