

## Product datasheet for MR229129

### Stk16 (NM\_001277992) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stk16 (NM_001277992) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stk16
Synonyms:	EDPK; Krct; MPSK; PKL12; TSF-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229129 representing NM_001277992 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGCCACGCACTGTGTCTGCTCCCGGGAAGTGTGCATCATTGACAATAAGCGTTACCTCTTCGTCC  
AGAAATTGGGGGAAGGTGGATTCAGCTATGTGGACCTAGTGGAGGCTTGCATGATGGACACTTCTACGC  
CCTGAAGCGGATCCTGTGCCATGAGCAGCAAGACCAGGAAGAAGCCCAACGAGAGGCAGAGATGCATCGC  
CTCTCCAGCATCCCAACATCCTTCGCCTCATGGCTTACTCTCTGAAAGAACGAGGTGCTAAGCATGAAG  
CCTGGCTGCTGCTGCCCTTCTTCAAGAAAGGTACTGTGGAATGAGATAGAAAGGCTGAAGGACCAAGG  
CAGCTTCTGACTGAAGACCAGATCCTGCCGCTGTTGCTGGGTATCAGCAGAGGCCTTGAGGCTATTCAT  
GCCAAAGTTATGCACACAGGGACCTGAAGCCCAATATTTTGGCTTGGTGATGAGGGGCAGCCAGTTT  
TAATGGACTTGGGTTCTATGAATCAAGCATGCATTCAAGTGGAGGCTCTGCCAGGCACTAGCTCTTCA  
GGACTGGGCAGCTCAGCGGTGCACCATCTCTACCGGGCACCTGAACTTTTTCTGTGCAAAGCCACTGT  
GTCATCGATGAGCGGACTGATGTCTGGTCCCTAGGCTGTGTGCTTTATGCCATGATGTTTGGGAAGGCC  
CTTACGATATGGTGTCCAGAAGGGTGACAGTGTGGCCCTTGTGTGCAGAATGAACTCAGCATCCACACA  
AAGCCCCAGGCATTCTTACGATTGCGACAGCTATTGTCTTCTATGATGACTGTGGACCCCAAGCAGAGG  
CCTCACATCCCTGTCTCTCAGTCAGTTGGAGGCATTGCAGCCACCAGCTCCTGGCCAGCACACCACCC  
AAATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229129 representing NM\_001277992  
 Red=Cloning site Green=Tags(s)

MGHALCVCSRGTVIDNKRYLFVQKLGEGGF SYVDLVEGLHDGHFYALKRILCHEQQDQEEAQREAEHR  
 LFQHPNILRLMAYSLKERGAKHEAWLLLPFFKKGTLWNEIERLKDQGSFLTEDQILPLLLGISRGLAIIH  
 AKGYAHRDLKPTNILLGDEGQPVLMDLGSMNQACIQVEGSRQALALQDWAARCTISYRAPELFSVQSHC  
 VIDERTDVWSLGCVLYAMMFEGEPYDMVFQKGDYSVALAVQNELSIPQSPRHSSALRQLLSSMNTVDPQQR  
 PHIPVLLSQLEALQPPAPGQHTTQI

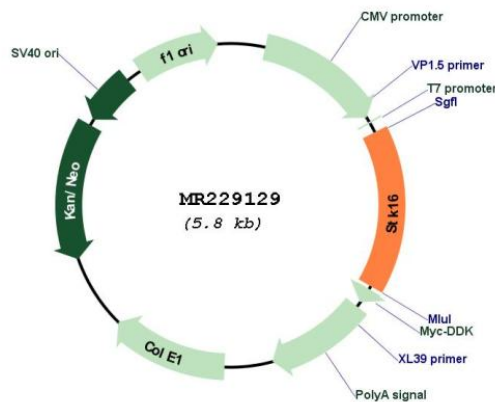
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001277992

**ORF Size:** 915 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001277992.1</a> , <a href="#">NP_001264921.1</a>
<b>RefSeq Size:</b>	2857 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	20872
<b>UniProt ID:</b>	<a href="#">O88697</a>
<b>Cytogenetics:</b>	1 C4
<b>MW:</b>	34.8 kDa
<b>Gene Summary:</b>	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]