

Product datasheet for **MG204293**

Stk16 (NM_011494) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stk16 (NM_011494) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stk16
Synonyms:	EDPK; Krct; MPSK; PKL12; TSF-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204293 representing NM_011494 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCACGCACTGTGTCTGCTCCCGGGAAGTGTGCATCATTGACAATAAGCGTTACCTCTTCGTCC
AGAAATTGGGGGAAGGTGGATTCAGCTATGTGGACCTAGTGGAGGGCTTGCATGATGGACACTTCTACGC
CCTGAAGCGGATCCTGTGCCATGAGCAGCAAGACCAGGAAGAAGCCCAACGAGAGGCAGAGATGCATCGC
CTCTCCAGCATCCCAACATCCTTCGCCTCATGGCTTACTCTCTGAAAGAACGAGGTGCTAAGCATGAAG
CCTGGCTGCTGCTGCCCTTCTTCAAGAAAGGTACTGTGGAATGAGATAGAAAGGCTGAAGGACCAAGG
CAGCTTCCTGACTGAAGACCAGATCCTGCCGCTTTGCTGGGTATCAGCAGAGGCCCTTGAAGCTATTCAT
GCCAAAGTTATGCACACAGGGACCTGAAGCCCAATATTTTGCTTGGTGATGAGGGGCAGCCAGTTT
TAATGGACTTGGGTTCTATGAATCAAGCATGCATTCAAGTGGAGGGCTCTCGCCAGGCACTAGCTCTTCA
GGACTGGGCAGCTCAGCGGTGCACCATCTCCTACCGGGCACCTGAACTTTTTTCTGTGCAAAGCCACTGT
GTCATCGATGAGCGGACTGATGTCTGGTCCCTAGGCTGTGTGCTTTATGCCATGATGTTGGGGAAGGCC
CTTACGATATGGTGTCCAGAAGGGTGACAGTGTGCCCTTGCTGTGCAGAATGAACTCAGCATCCCACA
AAGCCCCAGGCATTCTTCAGCATTGCGACAGCTATTGTCTTCTATGATGACTGTGGACCCCCAGCAGAGG
CCTCACATCCCCTGCTCCTCAGTCAGTTGGAGGCATTGCAGCCACCAGCTCTGGCCAGCACACCACCC
AAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204293 representing NM_011494
 Red=Cloning site Green=Tags(s)

MGHALCVCSRGTVIDNKRYLFVQKLGEGGF SYVDLVEGLHDGHFYALKRILCHEQQDQEEAQR EAEMHR
 LFQHPNILRLMAYSLKERGAKHEAWLLLPFFKKGTLWNEIERLKDQGSFLTEDQILPLLLGISRGL EAIH
 AKGYAHRDLKPTNILLGDEGQPVLMDLGSMNQACIQVEGSRQALALQDWAARCTISYRAPELFSVQSHC
 VIDERTDVWSLGCVLYAMMFEGEPYDMVFQKGD SYVALAVQNELSIPQSPRHSSALRQLLSSMMTVDPQQR
 PHIPVLLSQLEALQPPAPGQHTTQI

TRTRPLE - GFP Tag - V

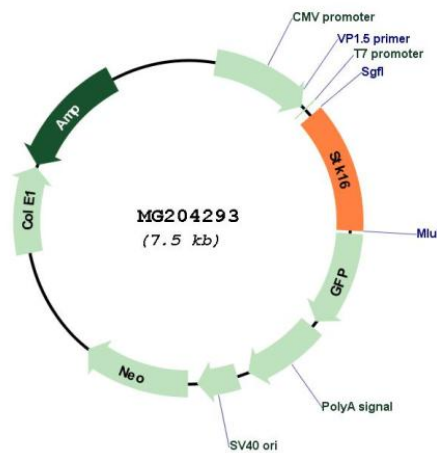
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011494

ORF Size: 915 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_011494.5 , NP_035624.3
RefSeq Size:	2860 bp
RefSeq ORF:	918 bp
Locus ID:	20872
UniProt ID:	O88697
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]