

## Product datasheet for **RG200566**

### STK16 (NM\_003691) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STK16 (NM_003691) Human Tagged ORF Clone
Tag:	TurboGFP
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-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200566 representing NM_003691 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGCCACGCGTGTGTCTGCTCTCGGGAACTGTCATCATTGACAATAAGCGCTACCTCTTCATCC  
AGAACTGGGGAGGGTGGGTTAGCTATGTGGACCTAGTGGAAGGGTTACATGATGGACTTCTACGC  
CCTGAAGCGAATCCTGTGTACAGAGCAGCAGGACCGGGAGGAGGCCAGCGAGAAGCCGACATGCATCGC  
CTCTTCAATCACCCCAACATCCTTCGCCTCGTGGCTTACTGTCTGAGGGAACGGGGTCTAAGCATGAGG  
CCTGGCTGCTGCTACCATTTCAAGAGAGGTACGCTGTGGAATGAGATAGAAAGGCTGAAGGACAAAGG  
CAACTTCTGACCGAGGATCAAATCCTTTGGCTGCTGCTGGGGATCTGCAGAGGCCTTGAGGCCATTCAT  
GCCAAGGGTTATGCCACAGAGACTTGAAGCCACCAATATATTGCTTGGAGATGAGGGGCAGCCAGTTT  
TAATGGACTTGGGTTCCATGAATCAAGCATGCATCCATGTGGAGGGCTCCCGCCAGGCTCTGACCCCTGCA  
GGACTGGGCAGCCAGCGGTGCACCATCTCCTACCGAGCCCGAGAGCTTCTCTGTGTCAGAGTCACTGT  
GTCATCGATGAGCGGACTGATGTCTGGTCCCTAGGCTGCGTGCTATATGCCATGATGTTGGGGAAGGCC  
CTTATGACATGGTGTCCAAAAGGGTGACAGTGTGGCCCTTGCTGTGCAGAACCAACTCAGCATCCACACA  
AAGCCCCAGGCATTCTTCAGCATTGTGGCAGCTCCTGAACTCGATGATGACCGTGGACCCGCATCAGCGT  
CCTCACATTCTCTCCTCCTCAGTCAGCTGGAGGCGTGCAGCCCCAGCTCCTGGCCAACATACTACCC  
AAATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200566 representing NM\_003691  
 Red=Cloning site Green=Tags(s)

MGHALCVCSRGTVIIDNKRYLFIQKLGGGF SYVDLVEGLHDGHFYALKRILCHEQQDREEAQREADMHR  
 LFNHPNILLRLVAYCLRERGAKEAWLLLPFFKRGTLWNEIERLKDKGNFLTEDQILWLLLGICRGLLEAIH  
 AKGYAHRDLKPTNILLGDEGQPVLMDLGSMNQACIHVEGSRQAL TLQDWAQRCTISYRAPELFSVQSHC  
 VIDERTDVWSLGCVLYAMMFEGEPYDMVFQKGD SVALAVQNQLSIPQSPRHSSALWQLLNSMMTVDPHQ  
 RPHIPLLLSQLEALQPPAPGQHTTQI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003691

**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:**

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:** 917 bp

**Locus ID:** 8576

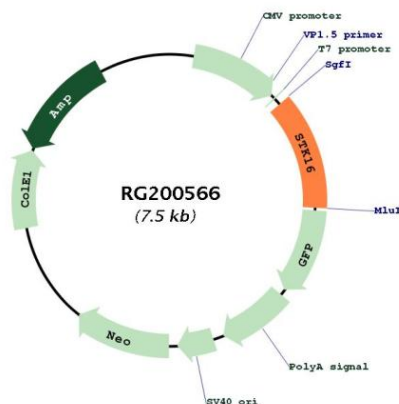
**Cytogenetics:** 2q35

**Domains:** pkinase, TyrKc, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**Gene Summary:** 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. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG200566