

## Product datasheet for **RR213670**

### Stk16 (NM\_173142) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Stk16 (NM\_173142) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Stk16  
**Synonyms:** F52; PKL12  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR213670 representing NM\_173142  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGCCATGCACTGTGTCTGTTCCCGGGAACTGTCATCATTGACAATAAGCGTTACCTCTTCGTCC  
AGAAATTGGGGGAGGGTGGTTCCAGCTACGTGGACCTAGTGGAGGGCTTACATGATGGACACTTCTACGC  
CCTGAAGCGAATCCTGTGTCATGAGCAGCAGGACCAGGAAGAGGCCAACGAGAGGCAGACATGCATCGC  
CTCTCCAGCATCAAACATCCTTCGCCTCATGGCTTACTCTTTGAAAGAACGAGGTGCTAAGCATGAAG  
CCTGGCTGCTGCTACCTTCTTCAAGAGAGGTACACTGTGGAATGAGATAGAAAGGCTGAAGGACCAAGG  
CAACTTCTGACTGAAGACCAAATCCTTCGGTGTGGTATCTGCAGAGGCCTTGAGGCCATTTCAT  
GCCAAAGGTTATGCACACAGGGACCTGAAGCCCAATATTTTGCTTGGTGATGAGGGGAGCCGGTTT  
TAATGGACTTGGGTTCTATGAATCAAGCATGCATCCAAGTGGAGGGATCTGCCAGGCCCTAGCTCTACA  
GGACTGGGAGCCAGCGGTGCACCATCTCCTACCGGACCTGAACTTTTTCTGTGCAAAGCCACTGT  
GTCATCGATGAGCGGACTGATGTCTGGTCCCTAGGCTGTGTCTTATGCAATGATGTTTGGGAAGGCC  
CTTATGATATGGTGTCCAGAAAGGTGACAGTGTGGCCCTTGTGTGCAATGACCTCAGCATCCACACA  
AAGCCCCAGGCATTCTTACGATTGCGACAGCTGTTGGCCTCTATGATGACTGTGGACCCCCAGCAACGC  
CCTCACATCCCTGTCTCCTCAGTCAATTGGAGGCATTGCAGCCACCAGCTCCTGGCCAGCACACCACC  
AAATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR213670 representing NM\_173142  
 Red=Cloning site Green=Tags(s)

MGHALCVCSRGTVIDNKRYLFVQKLGEGGF SYVDLVEGLHDGHFYALKRILCHEQQDQEEAQREADMHR  
 LFQHPNILRLMAYSLKERGAKHEAWLLLPFFKRGTLWNEIERLKDQGNFLTEDQILPLLLGICRGLAIIH  
 AKGYAHRDLKPTNILLGDEGQPVLMDLGSMNQACIQVEGSRQALALQDWAARCTISYRAPELFSVQSHC  
 VIDERTDVWSLGCVL YAMMFEGEPYDMVFQKGD SVALAVQNDLSIPQSPRHSSALRQLLASMMTVDPQQR  
 PHIPVLLSQLEALQPPAPGQHTTQI

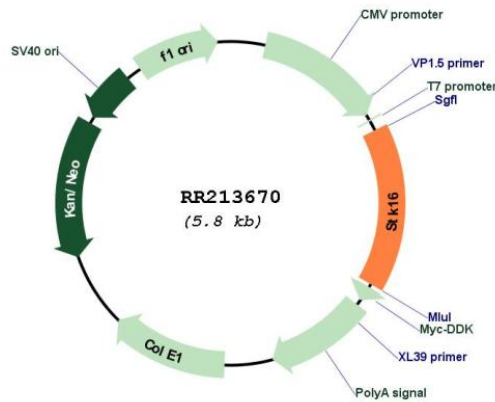
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_173142

**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_173142.1</a> , <a href="#">NP_775165.1</a>
<b>RefSeq Size:</b>	1489 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	286927
<b>UniProt ID:</b>	<a href="#">P57760</a>
<b>Cytogenetics:</b>	9q33
<b>MW:</b>	34.4 kDa
<b>Gene Summary:</b>	serine/threonine protein kinase enzyme; may regulate transforming growth factor-beta (Tgfb) and vascular endothelial growth factor transcription [RGD, Feb 2006]