

## Product datasheet for **RC234335**

### STK3 (NM\_001256312) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STK3 (NM_001256312) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STK3
Synonyms:	KRS1; MST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234335 representing NM\_001256312  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTACAACATCATGGACAGTGGCATTACCATCTGCCTTAGGAACGGAGCAGCCTCTGTCTTCAAGAAAA  
 AAGAATGGAGCACACAAGGAGAAGAAAAACAAGCAAGACAGTAAACTAAAAAGCTGAGTGAAGACAGTTT  
 GACTAAGCAGCCTGAAGAAGTTTTTGTATGATTAGAGAAGCTTGAGAAGGGTCTTATGGAAGTGTATTT  
 AAAGCAATACACAAGGAATCCGGTCAAGTTGTCGCAATTAACAAGTACCTGTTGAATCAGATCTTCAGG  
 AAATAATCAAAGAAATTTCCATAATGCAGCAATGTGACAGCCCATATGTTGTAAGTACTATGGCAGTTA  
 TTTTAAGAATACAGACCTCTGGATTGTTATGGAGTACTGTGGCGTGGCTCTGTCTCAGACATAATTAGA  
 TTACGAAACAAGACATTAATAGAAGATGAAATGCAACCATTCTAAATCTACATTGAAAGGACTAGAAT  
 ATTTGCACTTTATGAGAAAAATACACAGAGATATAAAGCTGGAATATTTCTCTCAATACAGAAGGACA  
 TGCAAAATGGCAGATTTTGGAGTGGCTGGTCAAGTAAACAGATACAATGGCAAAACGCAATACTGTAA  
 GAACTCCATTTTGGATGGCTCCTGAGGTGATTCAAGAAATAGGCTATAACTGTGTGGCCGACATCTGGT  
 CCCTTGGCATTACTTCTATAGAAATGGCTGAAGGAAAACCTCCTTATGCTGATATACATCCAATGAGGGC  
 TATTTTTATGATTTCCACAAATCCACCACCAACATTCAGAAAGCCAGAATTTGGTCCGATGATTTACC  
 GATTTTGTAAAAAGTGTGGTGAAGAATCCTGAGCAGAGAGCTACTGCAACACAACCTTTTACAGCATC  
 CTTTTATCAAGAATGCCAAACCTGTATCAATATTAAGAGACCTGATCACAGAAGCTATGGAGATCAAAGC  
 TAAAAGACATGAGGAACAGCAACGAGAATTGGAAGAGGAAGAAGAAAATTCGGATGAAGATGAGCTGGAT  
 TCCACACCATGGTGAAGACTAGTGTGGAGAGTGTGGCCACCATGCGGGCCACAAGCAGCATGAGTGAAG  
 GGGCCAGACCATGATTGAACATAATAGCAGCATGTTGGAATCCGACTTGGGACCATGGTGATAAACAG  
 TGAGGATGAGGAAGAAGAAGATGGAACATGAAAAGAAAATGCAACCTCACCACAAGTACAAAGACCATCT  
 TTCATGGACTACTTTGATAAGCAAGACTTCAAGAATAAGAGTACGAAAACTGTAATCAGAACATGCATG  
 AACCTTCCCTATGTCCAAAAACGTTTTTCTGATAACTGAAAAGTTCTCAAGATGGAGACTTTGACTT  
 TTTGAAAATCTAAGTTTAGAAGAACTACAGATGCGGTTAAAAGCACTGGACCCCATGATGGAACGGGAG  
 ATAGAAGAACTTCGTGAGAGATACACTGCGAAAAGACAGCCATTCTGGATGCGATGGATGCAAAGAAAA  
 GAAGGCAGCAAACTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234335 representing NM\_001256312  
 Red=Cloning site Green=Tags(s)

MLQLMDSGITICLRNGAASVFKKKEWSTQGEENKQDSKLLKLSLTKQPEEVFDVLEKLGESYGSVF  
 KAIHKESQVVAIKQVPVESDLQEIIKEISIMQQCDSPYVVKYYSYFKNTDLWIVMEYCGAGSVSDIIR  
 LRNKTLIEDEIATILKSTLKLEYLHFMRIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVI  
 GTPFWMAPEVIQEIYNCVADIWLSLIGTISIEAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDFT  
 DFVKKCLVKNPEQRATATQLLQHPFIKNAKPVSLRDLITEAMEIKAKRHEEQRELEEEEEENSDDEL  
 SHTMVKTSVESVGTMRATSTMSEGAQTMIEHNSTMLESDLGTMVINSEDEEEEDGTMKRNATSPQVQRPS  
 FMDYFDKQDFKNKSHENCNQNMEHPFMSKNVFPDNNKVPQDGDGDFLKNLSLEELQMLKALDPMERE  
 IEELRQRYTAKRQPIILDAMDAKRRRQNF

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001256312

**ORF Size:** 1557 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\\_001256312.2](#)

**RefSeq Size:** 3171 bp

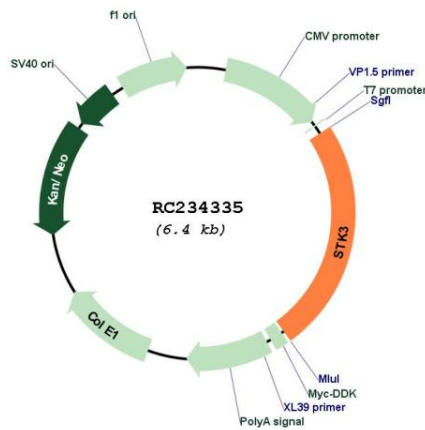
**RefSeq ORF:** 1560 bp

**Locus ID:** 6788

**UniProt ID:** [Q13188](#)

**Cytogenetics:** 8q22.2  
**Protein Families:** Druggable Genome, Protein Kinase  
**Protein Pathways:** MAPK signaling pathway  
**MW:** 59.9 kDa  
**Gene Summary:** This gene encodes a serine/threonine protein kinase activated by proapoptotic molecules indicating the encoded protein functions as a growth suppressor. Cleavage of the protein product by caspase removes the inhibitory C-terminal portion. The N-terminal portion is transported to the nucleus where it homodimerizes to form the active kinase which promotes the condensation of chromatin during apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

**Product images:**



Circular map for RC234335