

Product datasheet for **RC237863**

STK3 (NM_001256313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK3 (NM_001256313) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STK3
Synonyms:	KRS1; MST2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237863 representing NM_001256313 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCAGCCGCGCGCCTAAGAGTAACTAAAAAGCTGAGTGAAGACAGTTTGACTAAGCAGCCTG
AAGAAGTTTTGATGTATTAGAGAAGCTTGGAGAAGGTCTTATGGAAGTGATTTAAAGCAATACACAA
GGATCCGGTCAAGTTGTCGCAATTAACAAGTACCTGTTGAATCAGATCTTCAGGAAATATCAAAGAA
ATTTCCATAATGCAGCAATGTGACAGCCCATATGTTGTAAGTACTATGGCAGTTATTTAAGAATACAG
ACCTCTGGATTGTTATGGAGTACTGTGGCGCTGGCTCTGTCTCAGACATAATTAGATTACGAAACAGAC
AGCTATTTTTATGATTCCCAAAATCCACCACCAACATTCAGAAAGCCAGAACTTTGGTCCGATGATTTT
ACCGATTTTGTTAAAAAGTGTGGTGAAGAATCCTGAGCAGAGAGCTACTGCAACACAACCTTTTACAGC
ATCCTTTTATCAAGAATGCCAAACCTGTATCAATATTAAGAGACCTGATCACAGAAGCTATGGAGATCAA
AGCTAAAAGACATGAGGAACAGCAACGAGAATTGGAAGAGGAAGAAGAAAATTCGGATGAAGATGAGCTG
GATTTCCACACCATGGTGAAGACTAGTGTGGAGAGTGTGGCACCATGCGGGCCACAAGCACCAGTGAATG
AAGGGGCCAGACCATGATTGAACATAATAGCAGCATGTTGGAATCCGACTTGGGGACCATGGTGAATAAA
CAGTGAGGATGAGGAAGAAGAAGATGAACTATGAAAAGAAATGCAACCTCACCACAAGTACAAAGACCA
TCTTTTATGGACTACTTTGATAAGCAAGACTTCAAGAATAAGAGTCACGAAAACCTGTAATCAGAATATGC
ATGAACCTTCCCTATGTCCAAAAACGTTTTCTGATAACTGGAAAGTTCTCAAGATGGAGACTTTGA
CTTTTTGAAAAATCTAAGTTTAGAAGAACTACAGATGCGGTTAAAAGCACTGGACCCCATGATGGAACGG
GAGATAGAAGAACTTCGTCAGAGATACACTGCGAAAAGACAGCCATTCTGGATGCGATGGATGCAAGA
AAAGAAGGCAGCAAACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC237863 representing NM_001256313
Red=Cloning site Green=Tags(s)

MEQPPAPKSKLKKLSEDSLTKQPEEVFDVLEKLGEGSYGSVFKAIHKESGQVVAIKQVPVESDLQEIIKE
 ISIMQQCDSPYVVKYYSYFKNTDLWIVMEYCGAGSVSDIIRLNKTAIFMIPTNPPPTFRKPELWSDDF
 TDFVKKCLVKNPEQRATATQLLQHPFIKNAKPVSLRDLITEAMEIKAKRHEEQQRELEEEENSDEDEL
 DSHTMVKTSVESVGTMRATSTMSEGAQTMIEHNSTMLES DLGTMVINSEDEEEEDGTMKRNATSPQVQRP
 SFMDYFDKQDFKNKSHENCNQNMHEPFPMSKNVFPDNWKVPQDGFDFLKNLSLEELQMRLKALDPMMER
 EIEELRQRYTAKRQPIILDAMDAKKRRQQNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

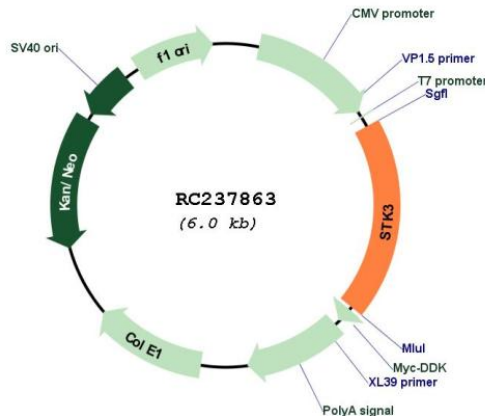
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256313

ORF Size:	1140 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_001256313.1 , NP_001243242.1
RefSeq Size:	2485 bp
RefSeq ORF:	1143 bp
Locus ID:	6788
Cytogenetics:	8q22.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway
MW:	44.4 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]