

Product datasheet for **RG237863**

STK3 (NM_001256313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK3 (NM_001256313) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STK3
Synonyms:	KRS1; MST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237863 representing NM_001256313. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGGAGCAGCCGCGCGCCCTAAGAGTAACTAAAAAGCTGAGTGAAGACAGTTTGACTAAGCAGCCT
GAAGAAGTTTTGATGTATTAGAGAAGCTTGGAGAAGGGTCTTATGGAAGTGATTTAAAGCAATACAC
AAGGAATCCGGTCAAGTTGTCGCAATTAACAAGTACCTGTTGAATCAGATCTTCAGGAAATAATCAAA
GAAATTTCCATAATGCAGCAATGTGACAGCCCATATGTTGTAAGTACTATGGCAGTTATTTAAGAAT
ACAGACCTCTGGATTGTTATGGAGTACTGTGGCGCTGGCTCTGTCTCAGACATAATTAGATTACGAAAC
AAGACAGCTATTTTTATGATTCCCAAAATCCACCACCAACATTCAGAAAGCCAGAATTTGGTCCGAT
GATTTCCACCGATTTTGTAAAAAGTGTTGGTGAAGAATCCTGAGCAGAGAGCTACTGCAACACAATTT
TTACAGCATCCTTTTATCAAGAATGCCAAACCTGTATCAATTAAGAGACCTGATCACAGAAGCTATG
GAGATCAAAGCTAAAAGACATGAGGAACAGCAACGAGAATTGGAAGAGGAAGAAGAAAATTCGGATGAA
GATGAGCTGGATCCCACACCATGGTGAAGACTAGTGTGGAGAGTGTGGGCACCATGCGGGCCACAAGC
ACGATGAGTGAAGGGGCCAGACCATGATTGAACATAATAGCACGATGTTGGAATCCGACTTGGGGACC
ATGGTGATAAACAGTGAAGGATGAGGAAGAAGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
AATCAGAACATGCATGAACCTTCCCTATGTCCAAAACGTTTTCTCTGATAACTGGAAAGTTCCCTCAA
GATGGAGACTTTGACTTTTTGAAAAATCTAAGTTTGAAGAAGTACAGATGCGGTTAAAAGCACTGGAC
CCCATGATGGAACGGGAGATAGAAGAACTTCGTACAGATACACTGCGAAAAGACAGCCATTCTGGAT
GCGATGGATGCAAAGAAAAGAAGGCAGCAAACTTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237863
 Blue=ORF Red=Cloning site Green=Tag(s)

MEQPPAPKSKLKKLSEDSLTKQPEEVFDVLEKLGEGSYGSVFKAIHKESGQVVAIKQVPVESDLQEIIK
 EISIMQQCDSPYVVKYYGSYFKNTDLWI VMEYCGAGSVSDIIRLRNKTAIFMIPTNPPPTFRKPELWSD
 DF TDFVKKCLVKNPEQRATATQLLQHPFIKNAKPVSI LRDLITEAMEIKAKRHEEQRELEEEENSDE
 DELDSHTMVKTSVESVGTMRATSTMSEGAQTMIEHNSTMLESDLGTMVINSEDEEEEDGTMKRNATSPQ
 VQRPSFMDYFDKQDFKNKSHENCNQNMHEPFPMSKNVFPDNWKVPQDGGDFDLK NLSLEELQMR LKALD
 PMMEREIEELRQRYTAKRQPI LDAMDAKKRRQQNF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

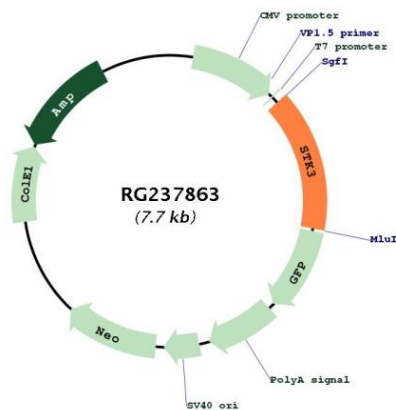
RefSeq: [NM_001256313.1](#), [NP_001243242.1](#)

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]

Product images:



Circular map for RG237863