

## Product datasheet for RC235111

### STK31 (NM\_001260504) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STK31 (NM_001260504) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STK31
Synonyms:	SGK396; TDRD8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC235111 representing NM_001260504 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGAAGATACACATTACGATAAAAGTGAAGATGTGGTTGGAAGTCACATAGAAGATGCAGTAACAT  
TTTGGGCCAGAGTATCAATAGAAATAAGGATATCATGAAGATTGGTTGCTCACTGTCTGAAGTTTGCCC  
CCAGGCCAGTTCAGTTTTGGGGAATCTTGACCCAAACAAGATTTATGGTGGATTATTTCTGAAGATCAG  
TGTTGGTACAGATGCAAAGTACTGAAAATCATCAGCGTTGAAAAGTGTCTGGTGAGGTACATTGACTATG  
GAAATACTGAAATCTAAATCGATCTGATATAGTTGAAATTCCTTTGGAGCTGCAGTTTTCTAGTGTTC  
CAAAAAGTATAAACTTTGGGGACTACACATTCCTTCTGATCAAGAAGTTACCCAGTTTGATCAGGGCACA  
ACCTTTTTGGGGAGCTTGATTTTTGAAAAGGAAATAAAAATGAGAATTAAGCAACCTCTGAAGATGGAA  
CAGTTATTGCTCAGGCTGAGTATGGCAGTGTGGATATAGGGGAAGAGGTGCTTAAGAAAGGATTTGCAGA  
GAAATGCAGACTTGCTCCAGAAGTACATCTGTGAGGAAAAAATGGATCCTGGTCACTTGTCTC  
AGGAACCTCAAAAGCCCCATTCTTTGTGGGGCATAGATCAAACAGTCAACCTTCAGCAGGCCCAAGG  
GGCACTTAAGTGAGAAAATGACTCTTGACTTGAAGGATGAAAATGATGCAGGCAATCTTATAACATTTCC  
AAAGGAAAAGTTGGCTGTTGGTGACTTTAATTTAGGGTCTAACGTCAGCCTGGAAAAAATTAAGCAGGAC  
CAGAACTGATTGAAGAAAATGAAAACCTTAAAACAGAGAAGGACGCTCTTTGAAAGTTATAAGGCCT  
TAGAATTGAAAGTAGAGCAGATTGCCAGGAGCTGCAGCAAGAGAAGGCAGCTGCTGTGGATTTGACTAA  
CCACTTAGAATACACTCTGAAGACCTATATAGATACCAGAATGAAAAATCTGGCAGCTAAGATGAAATA  
CTGAAAGAAAATGAGGCATGTCGACATCAGTGTCCGTTTCGAAAAAGACCTTTCAGATGCTATACAAGTGT  
TGGATGAAGGGTCTTTACTACTCCAGCTTCTTTGAATGGATTAGAGATAATATGGGCAGAATACAGTCT  
GGCTCAGGAGAATATTAACCTTGTGAATATGTGAGTGAAGGGAATATTTTGATTGCCCAAGAAATGAA  
ATGCAGCAGAAGCTGTACATGTCAGTAGAAGATTTTATTCTGGAAGTTGATGAGTCATCTTAATAAAC  
GCTTAAAAACATTGCAGGATTTGTGAGTCTTTAGAAGCAGTGTATGGACAAGCCAAAGAAGGAGCAA  
TTCTGATGAAATACTTAAAAATTTTATGACTGGAAGTGTGATAAAAGAGAGGAGTTCACCAGTGTAGA



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AGTGAAACAGACGCTTCTCTGCACCGTCTTGTAGCATGGTTCCAAAGAACCTTAAAGGTTTTTGACCTAT  
 CTGTGGAAGGATCACTGATTTTCAGAAGACGCAATGGATAATATTGATGAAATCCTAGAGAAGACTGAGTC  
 AAGTGTCTGCAAAGAGCTGGAGATAGCTCTGGTTGATCAAGGTGATGCAGACAAGGAGATAATTTCAAAT  
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 AGGACAGTATTGAGTTTTAAAAAGCAGCTTATTGAATATTTAAATAAGAGTCCCAGTGTGGATCACTTGCT  
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 ATGAGCTTGAACGAGATCTTCTTGATGCTGAGCCATGAAGGAAGTCTAGCAGCAAGCGTCTTTGGTAC  
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 GATTGAGAGAGCAGCCACCTACCATAGAGCTTGGAGAGAAGCTGAAGGAGACTCAGGTTACTGCCATTG  
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 GGGTCTGCATACATTGCATAAGGCTGACATAATTCATGGATCACTTCATCAGAACAATGTATTTGCTTTA  
 AACCGTGAACAAGGAATTTGGAGATTTTGACTTCACCAAATCTGTGAGTCAGCGAGCCTCGGTGAACA  
 TGATGGTTGGTGACTTGAGTTGATGTCACCTGAGTTGAAAATGGGAAAACCTGCTTCTCCAGGTTGAGA  
 CTTATATGCTTATGGCTGCCTCTTATTATGGCTTCTGTTCAAAATCAGGAGTTTGGATAAATAAAGAT  
 GGAATCCCAAGTGGATCAGTTTCATCTGGATGATAAAGTCAAATCCCTCCTCTGTAGCTTGATATGTT  
 ATAGAAGTTCAATGACTGCTGAACAAGTTTTAAATGCTGAATGTTTCTTGATGCCAAGGAGCAATCAGT  
 TCCAAACCCAGAAAAGATACTGAATACACCCTATATAAAAAGGAAGAAGAAATAAAGACGGAGAAGTTG  
 GATAAATGTATGGAGAAGACAAGAAATGGTGAAGCCAACTTTGATTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAGGTTTAA

**Protein Sequence:**

>RC235111 representing NM\_001260504  
 Red=Cloning site Green=Tags(s)

MDEDTHYDKVEDVVGSHIEDAVTFWAQSIINRNDIMKIGCSLSEVCPQASSVLGNLDPNKIYGGLFSEDD  
 CWYRCKVLKIIISVEKCLVRYIDYGNTEILNRSDIVEIPLLELQFSSVAKKYKLWGLHIPSDEVTQFDQGT  
 TFLGSLIFEKEIKMRIKATSEDGTVIAQAEYGSVDIGEEVLKKGFAEKCRASRTDICEEKLDPGQLVL  
 RNLKSPIPLWGHRSNQSTFSRPGHLSKMTLDLKDENDAGNLITFPKESLAVGDFNLGSNVSLEKIKQD  
 QKLIIEENEKLTKEKDALLESYKALELQVEQIAQELQQEAAAADLTDNHLEYTLKTYIDTRMKNLAAKMEI  
 LKEMRHVDISVRFKDLSDAIQVLDGCFFTPASLNGLEIIWAEYSLAQENIKTCEYVSEGNILIAQRNE  
 MQQKLYMSVEDFIEVDESSLNKRKTLQDLVSLLEAVYGQAKEGANSDEILKFFYDWKCDKREEFTSVR  
 SETDASLHRLVAVFQRTLKVFDSLVEGSLISEDAMDNIDEILEKTESSVCKELEIALVDQGDADKEIISN  
 TYSQVLQKIHSEERLIATVQAKYKDSIEFKKQLIEYLNKSPSVDHLLSIKKTLSLKLALRWKLVEKSNL  
 EESDDPDGSQIEKIKEEITQLRNNVFQEIYHEREYEMLTSLAQWFPPELLHPEIIGLLKYMNSGGLLT  
 MSLERDLLDAEPMKELSSKRPLVRSEVNGQIILLKGYSDVDTEAKVIERAATYHRAWREAGDSGLLPL  
 IFLFLCKSDPMAYLMVPPYPRANLNAVQANMPLNSEETLKVMKGVAQGLHLLHKADIHHSLSLHQQNVFAL  
 NREQGIVGDFDFTKSVSQRASVNMVGDLSLMSPELKMGPASPGSDLAYGCLLLWLVQVQEFEFINKD  
 GIPKVDQFHLDDKVKSLCSLICYRSSMTAEQVLNAEFLMPKEQSVPNPEKDTEYTLYKKEEIKTENL  
 DKCMEKTRNGEANFDC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001260504

**ORF Size:** 2988 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).

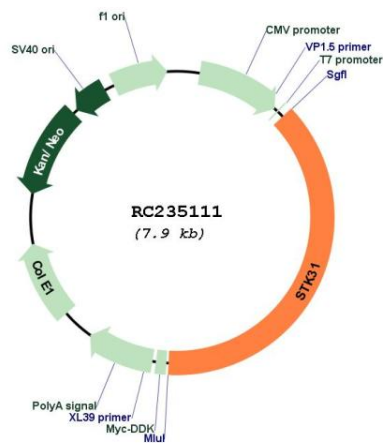
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_001260504.2](#)

**RefSeq Size:** 3602 bp

**RefSeq ORF:** 2991 bp  
**Locus ID:** 56164  
**UniProt ID:** [Q9BXU1](#)  
**Cytogenetics:** 7p15.3  
**Protein Families:** Druggable Genome, Protein Kinase  
**MW:** 113.7 kDa  
**Gene Summary:** This gene is similar to a mouse gene that encodes a putative protein kinase with a tudor domain, and shows testis-specific expression. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC235111