

Product datasheet for **RC237501**

STK25 (NM_001282305) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: STK25 (NM_001282305) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: STK25
Synonyms: SOK1; YSK1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237501 representing NM_001282305
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGTACCTGGGCGGGCTCAGCACTGGACTTGCTTAAACCAGGTCCCCTGGAGGAGACATACATTG
CCACGATCCTGCGGGAGATTCTGAAGGGCTGGATTATCTGCACTCCGAACGCAAGATCCACCGAGACAT
CAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTACGTAAGCTGGCGGACTTTGGGGTAGCAGGGCAG
CTCACAGACACGAGATTAAGAGGAACACATTCGTGGGCACCCCTTCTGGATGGACCTGAGGTCAATCA
AGCAGTCGGCCTACGACTTCAAGGCTGACATCTGGTCCCTGGGGATCACAGCCATCGAGCTGGCCAAAGG
GGAGCCTCCAAACTCTGACCTCCACCCCATGCGCGTCTGTTCCTGATTCCCAAGAACAGCCACCCACA
CTGGAGGGCCAGCACAGCAAGCCCTTCAAGGAGTTCGTGGAGGCCTGCCTCAACAAGACCCCGATTCC
GGCCACGGCCAAAGGAGCTCCTGAAGCACAAGTTCATCACACGCTACACCAAGAAGACCTCCTTCTCAC
GGAGCTCATCGACCGCTATAAGCGCTGGAAGTCAGAGGGGCATGGCGAGGAGTCCAGCTCTGAGGACTCT
GACATTGATGGCGAGGCGGAGGACGGGGAGCAGGGCCCATCTGGACGTTCCCCCTACCATCCGGCCGA
GTCCACACAGCAAGTTCACAAGGGGACGGCCCTGCACAGTTCACAGAAGCTGCGGAGCCCGTCAAGAG
GCAGCCGAGTCCAGTGCCTGTCCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCAAG
CAGAGCGCGGGAGCGTGGGTGCCTGGAGGAGCTGGAGAACGCCTTACGCTGGCCGAGGAGTCTTGCC
CCGGCATCTCAGACAAGCTGATGGTGCACCTGGTGGAGCGAGTGCAGAGGTTTTACACAACAGAAACCA
CCTGACATCCACCCGC

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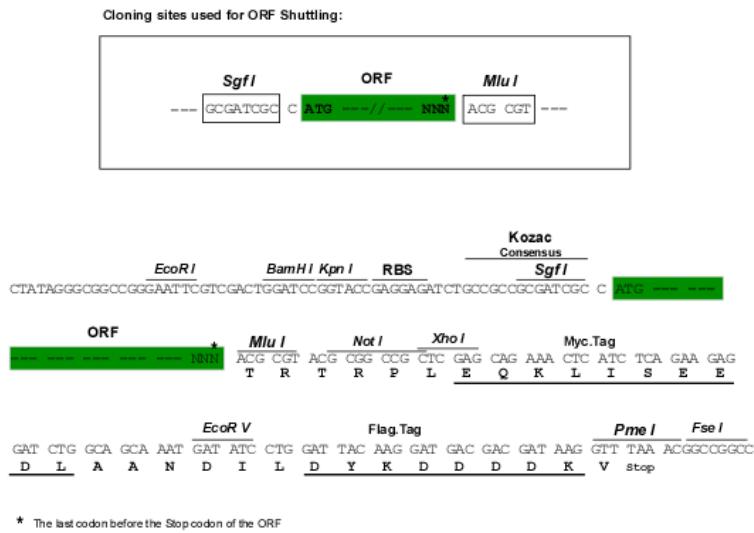
Protein Sequence: >RC237501 representing NM_001282305
 Red=Cloning site Green=Tags(s)

MEYLGGSALDLLKPGPLEETYIATILREILKGLDYLHSEKIHHRDIKAANVLLSEQGDVKLADFGVAGQ
 LTDTQIKRNTFVGTFFWMAPEVIKQSAYDFKADIWSLGITAIELAKGPPNSDLHPMRVLFIPKNSPPT
 LEGQHSKPFKEFVEACLNKDPFRPTAKELLKHKFITRYTKKTSFLTELIDRYKRWKSEGHGEESSEDS
 DIDGEAEDGEQGPIWTFPPTIRSPHSLKHKGTALHSSQKPAEPVKRQPRSQCLSTLVRPVFGELKEKHK
 QSGGSVGALEELANAFSLAEESCPGISDKLMVHLVERVQRF SHNRNHLTSTR

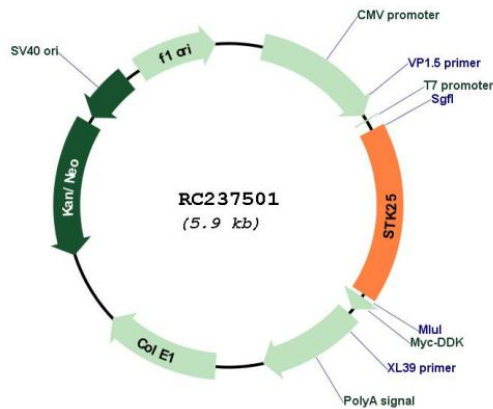
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282305

ORF Size: 996 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_001282305.1 , NP_001269234.1
RefSeq Size:	2556 bp
RefSeq ORF:	999 bp
Locus ID:	10494
UniProt ID:	O00506
Cytogenetics:	2q37.3
Protein Families:	Druggable Genome, Protein Kinase
MW:	37.7 kDa
Gene Summary:	This gene encodes a member of the germinal centre kinase III (GCK III) subfamily of the sterile 20 superfamily of kinases. The encoded enzyme plays a role in serine-threonine liver kinase B1 (LKB1) signaling pathway to regulate neuronal polarization and morphology of the Golgi apparatus. The protein is translocated from the Golgi apparatus to the nucleus in response to chemical anoxia and plays a role in regulation of cell death. A pseudogene associated with this gene is located on chromosome 18. Multiple alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2012]