

Product datasheet for **RG237502**

STK25 (NM_001282307) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK25 (NM_001282307) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STK25
Synonyms:	SOK1; YSK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237502 representing NM_001282307. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGTACCTGGGCGGGCTCAGCACTGGACTTGCTTAAACCAGGTCCCCTGGAGGAGACATACATT
GCCACGATCCTGCGGGGAGATTCTGAAGGGCCTGGATTATCTGCACTCCGAACGCAAGATCCACCGAGAC
ATCAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGGACTTTGGGGTAGCAGGG
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CGATTCGGGCCACGGCCAAGGAGCTCCTGAAGCACAAGTTCATCACACGCTACACCAAGAAGACCTCC
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CCCGTCAAGAGGCAGCCGAGGTCAGTGCCTGTCCACGCTGGTCCGGCCGCTCTCGGAGAGCTCAA
GAGAAGCACAAGCAGAGCGGGGAGCGTGGGTGCGCTGGAGGAGCTGGAGAAGCCCTTCAGCCTGGCC
GAGGAGTCTGCCCGGCATCTCAGACAAGCTGATGGTGACCTGGTGGAGCGAGTGCAGAGGTTTCA
CACAAACAGAAACCACCTGACATCCACCCG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237502
 Blue=ORF Red=Cloning site Green=Tag(s)

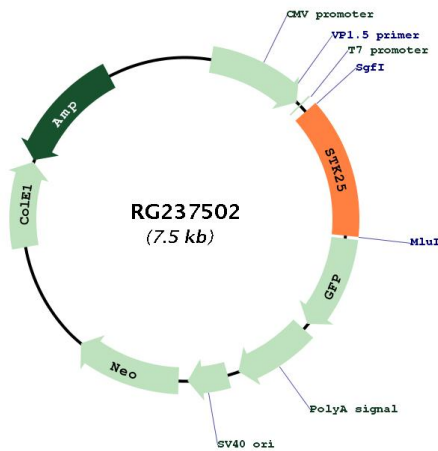
MEYLGGSALDLLKPGPLEETYIATILREILKGLDYLHSEKIHHRDIKAANVLLSEQDVKLADFGVAG
 QLTDTQIKRNTFVGTPFWMAPEVIKQSAFYDFKADIWSLGITAIELAKGEPNNDLHPMRVLFIPKNSP
 PTLGQHSKPFKEFVEACLNDKDRFRPTAKELLKHKFITRYTKKTSFLTELIDRYKRWKSEGHGEESS
 EDSIDIDGEAEDGEGPIWTFPPTIRSPHSLKHKGTALHSSQKPAEPVKRQPRSQCLSTLVRPVFGELK
 EKHKQSGGSVGALEELANAFSLAEE SCPGISDKLMVHLVERVQRFSHNRNHLTSTR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYDFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282307

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).
RefSeq:	NM_001282307.1 , NP_001269236.1
RefSeq Size:	2459 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]