

## Product datasheet for **RC237658**

### STK25 (NM\_001282306) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** STK25 (NM\_001282306) 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:** >RC237658 representing NM\_001282306  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGATCGAGGACATCCAGCAGGAGATCACTGTCCTCAAGCACCAAGCTATGGATCATCATGGAGTACC  
TGGGCGGCGGCTCAGCACTGGACTTGCTTAAACCAGTCCCTGGAGGAGACATAATTGCCACGATCCT  
GCGGGAGATTCTGAAGGGCTGGATTATCTGCACTCCGAACGCAAGATCCACCGAGACATCAAAGCTGCC  
AACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGGACTTTGGGGTAGCAGGGCAGCTCACAGACA  
CGCAGATTAAGAGGAACACATTCGTGGGCACCCCTTCTGGATGGCACCTGAGGTCAAGCAGTCGGC  
CTACGACTTCAAGGCTGACATCTGGTCCCTGGGGATCACAGCCATCGAGCTGGCCAAGGGGGAGCCTCCA  
AACTCTGACCTCCACCCATGCGCGTCTGTTCCTGATTCCCAAGAAGAGCCACCCACTGGAGGGCC  
AGCACAGCAAGCCCTTCAAGGAGTTCGTGGAGGCTGCCTCAACAAGAGCCCGATTCCGGCCACGGC  
CAAGGAGCTCTGAAGCACAAGTTCATCACACGCTACACCAAGAAGACCTCCTTCTCACGGAGCTCATC  
GACCGCTATAAGCGCTGGAAGTCAGAGGGCATGGCGAGGAGTCCAGCTCTGAGGACTTGACATTTGATG  
GCGAGGGCGAGGACGGGAGCAGGGCCCATCTGGACGTTCCCCCTACCATCCGGCCGAGTCCACACAG  
CAAGCTTCAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAGAGGCAGCCGAGG  
TCCAGTGCCTGTCCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACAAGCAGAGCGGCG  
GGAGCGTGGGTGCGCTGGAGGAGCTGGAGAAGCCTTCAGCCTGGCCGAGGAGTCTGCCCGGCATCTC  
AGACAAGCTGATGGTGCACCTGGTGGAGCGAGTGCAGAGGTTTTACACAACAGAAACCCTGACATCC  
ACCCGC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237658 representing NM\_001282306  
 Red=Cloning site Green=Tags(s)

MRSRTSSRRSLSSSTKLWIIMEYLGGSALDLLKPGPLEETYIATILREILKGLDYLSERKIHRDIKAA  
 NVLLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDFKADIWSLGITAIELAKGEP  
 NSDLHPMRVLFILPKNSPPTLEGQHSKPFKEFVEACLKNDPRFRPTAKELLKHKFITRYTKKTSFLTELI  
 DRYKRWKSEGHGEESSSESDIDGEAEDGEQGP I W T F P P T I R P S P H S K L H K G T A L H S S Q K P A E P V K R Q P R  
 S Q C L S T L V R P V F G E L K E K H K Q S G G S V G A L E E L E N A F S L A E E S C P G I S D K L M V H L V E R V Q R F S H N R N H L T S  
 T R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

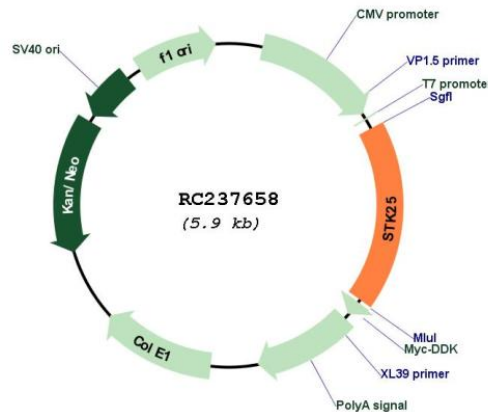
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001282306

<b>ORF Size:</b>	1056 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001282306.2</a>
<b>RefSeq Size:</b>	2539 bp
<b>RefSeq ORF:</b>	1059 bp
<b>Locus ID:</b>	10494
<b>Cytogenetics:</b>	2q37.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	40.1 kDa
<b>Gene Summary:</b>	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]