

## Product datasheet for **RC203215**

### STK25 (NM\_006374) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STK25 (NM_006374) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STK25
Synonyms:	SOK1; YSK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC203215 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTCACCTCCGGGATTTGCCAACACGACTCTCGAGTGGACCCTGAGGAGCTCTTACCAAGCTCG  
 ACCGCATTGGCAAGGGCTCGTTTGGGGAGGTCTACAAGGCATCGATAACCACACAAAGGAGGTGGTGGC  
 CATCAAGATCATCGACCTGGAGGAGGCCGAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCCTC  
 AGTCAGTGCACAGCCCTACATCACCCGCTACTTTGGCTCTACCTAAAGAGCACCAAGCTATGGATCA  
 TCATGGAGTACCTGGGCGCGGCTCAGCACTGGACTTGCTTAAACCAGGTCCCCTGGAGGAGACATACAT  
 TGCCACGATCCTGCGGGAGATTCTGAAGGGCTGGATTATCTGCACTCCGAACGCAAGATCCACCGAGAC  
 ATCAAAGTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGGACTTTGGGGTAGCAGGGC  
 AGCTCACAGACACGAGATTAAGAGGAACACATTCGTGGGCACCCCTTCTGGATGGCACCTGAGGTCAT  
 CAAGCAGTCGGCCTACGACTTCAAGGCTGACATCTGGTCCCTGGGGATCACAGCCATCGAGCTGGCCAAG  
 GGGGAGCCTCAAACCTGACCTCCACCCATGCGCGTCTGTTCTGATTCCCAAGAACAGCCACCCA  
 CACTGGAGGGCCAGCACAGCAAGCCCTCAAGGAGTTCGTGGAGGCTGCCTCAACAAAGACCCCGATT  
 CCGGCCACGCAAGGAGCTCCTGAAGCACAAGTTTCATCACACGCTACACCAAGAAGACCTCCTTCCTC  
 ACGGAGCTCATCGACCGCTATAAGCGCTGGAAGTCAGAGGGGCATGGCGAGGAGTCCAGCTCTGAGGACT  
 CTGACATTGATGGCGAGGCGGAGGACGGGGAGCAGGGCCCATCTGGACGTTCCCCCTACCATCCGGCC  
 GAGTCCACACAGCAAGCTTCAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAG  
 AGGCAGCCGAGGTCCCAGTGCCTGTCCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACA  
 AGCAGAGCGCGGGAGCGTGGGTGCGCTGGAGGAGCTGGAGAAGCCTTCAGCCTGGCCGAGGATCCTG  
 CCCCAGCATCTCAGACAAGCTGATGGTGCACCTGGTGGAGCGAGTGCAGAGGTTTTACACACAAGAAAC  
 CACCTGACATCCACCCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC203215 protein sequence  
 Red=Cloning site Green=Tags(s)

MAHLRGFANQHSRVDPEELFTKLDRIKGSFGEVYKIDNHTKEVVAIKIIDLEEADEIEDIQEITVL  
 SQCDSPYITRYFGSYLKSTKLWIIMEYLGGSALDLLKPGPLEETYIATILREILKGLDYLHSEKIH  
 IKAANVLLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTFFWMAPEVIKQSAYDFKADIWSLGITAI  
 ELAKGEPPNSDLHPMRVLFLLIPKNSPPTLEGQHSKPFKEFVEACLNDPRFRPTAKELLKHKFI  
 TRYTKTSFLTELIDRYKRWKSEGHGEESSSDIDGEAEDGEQGPFIWTFPPTIRSPHSLKHKGTAL  
 HSSQKPAEPVKRQPRSQCLSTLVRPVFGELKEKHKQSGGSVGALEELNAFLAEESCPGISDKLMVHL  
 VERVQRFSHNRNHLTSTR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

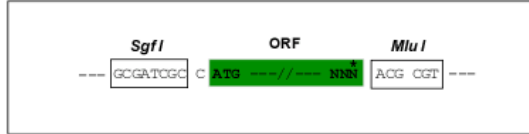
[https://cdn.origene.com/chromatograms/mk6078\\_c10.zip](https://cdn.origene.com/chromatograms/mk6078_c10.zip)

**Restriction Sites:**

SgfI-MluI

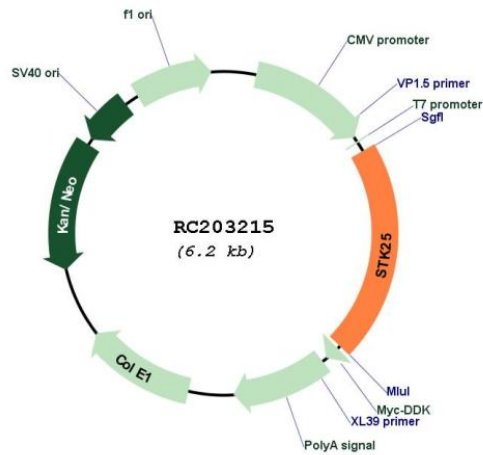
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



**ACCN:** NM\_006374

**ORF Size:** 1278 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\\_006374.5](#)

**RefSeq Size:** 2527 bp

**RefSeq ORF:** 1281 bp

**Locus ID:** 10494

**UniProt ID:** [O00506](#)

**Cytogenetics:** 2q37.3

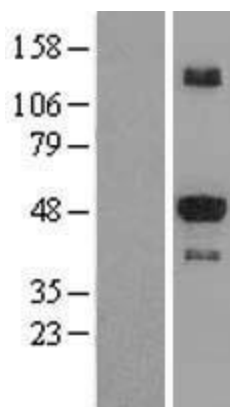
**Domains:** pkinase, TyrKc, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

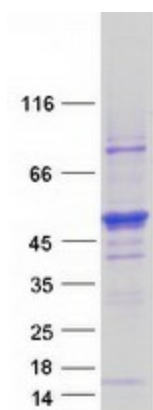
**MW:** 48.1 kDa

**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]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY416683]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203215 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STK25 protein (Cat# [TP303215]). The protein was produced from HEK293T cells transfected with STK25 cDNA clone (Cat# RC203215) using MegaTran 2.0 (Cat# [TT210002]).