

Product datasheet for RC233842

STK25 (NM_001271980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK25 (NM_001271980) 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)
ORF Nucleotide Sequence:	>RC233842 representing NM_001271980 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCACCTCCGGGATTTGCCAACAGAGCACCAAGCTATGGATCATCATGGAGTACCTGGCGGGCG
GCTCAGCACTGGACTTGCTTAAACCAGGTCCTGGAGGAGACATACATTGCCACGATCTGCGGGAGAT
TCTGAAGGGCCTGGATTATCTGCACTCCGAACGCAAGATCCACCGAGACATCAAAGCTGCCAACGTGCTA
CTCTCGGAGCAGGGTACGTGAAGCTGGCGGACTTTGGGGTAGCAGGGCAGCTCACAGACACGCAGATTA
AGAGGAACACATTCGTGGGCACCCCTTCTGGATGGCACCTGAGGTCATCAAGCAGTCGGCTACGACTT
CAAGGCTGACATCTGGTCCCTGGGATCACAGCCATCGAGCTGGCCAAGGGGAGCCTCCAACTCTGAC
CTCCACCCCATGCGCGTCTGTTCTGATTCCTCAGAACAGCCACCCACACTGGAGGGCCAGCACAGCA
AGCCCTTCAAGGAGTTCGTGGAGGCTGCCTCAACAAAGACCCCGATTCCGGCCACGGCCAAGGAGCT
CCTGAAGCACAAGTTCATCACACGCTACACCAAGAAGACCTCCTTCTCACGGAGCTCATCGACCCTAT
AAGCGTGGAAAGTCAGAGGGCATGGCGAGGAGTCCAGCTCTGAGGACTCTGACATTGATGGCGAGGCGG
AGGACGGGAGCAGGGCCCATCTGGACGTTCCCCCTACCATCCGGCCGAGTCCACACAGCAAGCTTCA
CAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAGAGGCAGCCGAGGTCACAGTGC
CTGTCCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACAAGCAGCGGGGAGCGTGG
GTGCGCTGGAGGAGCTGGAGAAGCCTTACGCCTGGCCGAGGAGTCTGCCCGGATCTCAGACAAGCT
GATGGTGCACCTGGTGGAGCGAGTGCAGAGTTTTACACAACAGAAACCACCTGACATCCACCCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC233842 representing NM_001271980
Red=Cloning site Green=Tags(s)

MAHLRGFANQSTKLWIIMEYLGGSALDLLKPGPLEETYIATILREILKGLDYLHSEKRIHRDIKAANVL
 LSEQGDVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDFKADIWSLGITAIELAKGPEPPNSD
 LHPMRVLFLLIPKNSPPTLEGQHSKPFKEFVEACLNKDPRFRPTAKELLKHKFITRYTKKTSFLTELIDRY
 KRWKSEGHGEESSESDIDGEAEDGEQPIWTFPPTIRPSHKLHKGTALHSSQKPAEPVKRQPRSQC
 LSTLVRPVFGELKEKHKQSGGSVGALEELNAFLAAEESCPGISDKLMVHLVERVQRF SHNRNHLTSTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001271980

ORF Size: 1047 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_001271980.2](#)

RefSeq Size: 2296 bp

RefSeq ORF: 1050 bp

Locus ID: 10494

UniProt ID: [O00506](#)

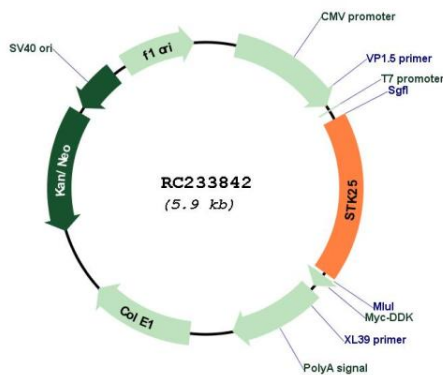
Cytogenetics: 2q37.3

Protein Families: Druggable Genome, Protein Kinase

MW: 39.7 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]

Product images:



Circular map for RC233842