

Product datasheet for **SC116411**

LOK (STK10) (NM_005990) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LOK (STK10) (NM_005990) Human Untagged Clone
Tag:	Tag Free
Symbol:	LOK
Synonyms:	LOK; PRO2729
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

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>OriGene ORF sequence for NM_005990 edited
ATGGCTTTTGCCAATTTCCGCCGCATCCTGCGCCTGTCTACCTTCGAGAAGAGAAAGTCC
CGCGAATATGAGCACGTCCGCCGCGACCTGGACCCCAACGAGGTGTGGGAGATCGTGGGC
GAGCTGGGCGACGGCGCCTTCGGCAAGGTTTACAAGGCCAAGAATAAGGAGACGGGTGCT
TTGGCTGCGGCCAAAGTCATTGAAACCAAGAGTGAGGAGGAGCTGGAGGACTACATCGTG
GAGATTGAGATCCTGGCCACCTGCGACCACCCCTACATTGTGAAGCTCCTGGGAGCCTAC
TATCACGACGGGAAGCTGTGGATCATGATTGAGTTCTGTCCAGGGGGAGCCGTGGACGCC
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ATGCTAGAAGCCCTCAACTTCCTGCACAGCAAGAGGATCATCCACCGAGATCTGAAAGCT
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CCCAGGTGGTCAATGTGTGAGACCATGAAAGACACGCCCTACGACTACAAAGCCGACATC
TGGTCCCTGGGCATCACGCTGATTGAGATGGCCAGATCGAGCCGCCACACCAGAGCTC
AACCCCATGCGGGTCTGCTAAAGATCGCCAAGTCAGACCCTCCCACGCTGCTCACGCC
TCCAAGTGGTCTGTAGAGTTCCTGACTTCCTGAAGATAGCCCTGGATAAGAACCAGAA
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TCACCTTCCACCCCGCTGGCACCCAGCCAGTCTCAGGACAGTGTGAATGAGCCCTGCAGC
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AGAATTCAGGTAGCCCAGGAGAAGCAAGTTGCTGAGCAGGGTGGGACCTCAGCCAGCA
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CTGAGCGAGGAGCGGAGTGCCCAAACCCCTCCACCCCAAGCAAGGCCGCAAGTTCTTTC
CCCTACAGTTCTGCGGATGCTTCTTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005990 unedited
 CCCCCCGGGCNCNCCTTTCCNNCCCCCTGTTCAAATTTGTATACCACTCATATA
 GGGCGCCGCGNAATTCGCACGAGGCGGCACAAGGGAGCGGCCCTGGGGACCTGACGGGCG
 GGGGCGGGGGCGGGCACGCCCGCCGCTGCGCGGTTCCGGGTGCTCCCGGCGGGCGCTGC
 CCAGGGCACACTTGACCGAGGTCGGGCTGCGGGGAAAGGCGGGTCTGGGGAGAACCCGA
 GAGACGCGGGCTCCTCCAACCTCTCTCTCTCGCGGCCGCGAAGCCACAGCCCG
 AGCCCGAGCCCGAGCCCGAGCCCGGCCACCCGCCCCCGCCATGGCTTTTGCCAAATTT
 CCGCCGCATCCTGCGCCTGTCTACCTTCGAGAAGAGAAAAGTCCCGCAATATGAGCACGT
 CCGCCCGACCTGGACCCCAACGAGGTGTGGGAGATCGTGGGCGAGCTGGGCGACGGCGC
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 CACCTGCGACCACCCTACATTGTGAAGCTCTGNGAGCCTACTATCACGACGGGAAGCT
 GTGGATCATGATTGAGTCTGTCCAGGGGGAGCCGTGGACGCCATCATGTGGAGCTGGA
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 CTTCTGCACAGCAAGAGGATCATCCACCCGAGATCTGAAGCTGNGCACGTGCTGATGAC
 CCTCGAGGGAGACATCANGCTGGCTGACTTTGGGGTGTCTGCCAGAAATCTGAGACTCTA
 CAAAACGAGATTCTTCATCGGCACGCTTACTGGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005990 unedited
 TTGGACCTATTCGCTCTTTCTTGTGTTATATACATTCTGCAGCTGTAGAATCAGAATCT
 GGGGGAAGCCAACTGAGACCCCCAAGGCCAGCAGGAGTCCATCTGAGGTACAGAACCTG
 TGCTTCTGCCATGTTCTGGGGCAGGGCATTCCATTTCCCCTGATGCTTTTTTCTTCT
 GAAGAGAAGTCCAACAGACTGCCAGCCAGGTCTGAAATGCAAGGTGGGACTCCTGAACA
 CAGTCGGGGGATGGGGCAGAGGCAAACAGCCCTCCTGTTTCACCTGCAGACAGGGTGGG
 CCAGAGTGCTATGGAGCAGACTGGGTTGTGGAAGCCTCGTGTGCTGAGGAATCAGTCCCT
 GCACACAGGAGCCTGTGCGGGGGCCAGCACGCATCGCAGCCTGGCAGTACAGCCTGTGCT
 TTTCCATGCCTCCGGTGCCAACACCCCGCAGTCCACACCACTGCTCCACCTAACATG
 CTCAGTGGCACAGGCTCAGGCAGCAAACGTGTTCCAACCCACCTGGGCAGAAAGAGGCCAG
 GCCAGCAGACCAAGTCTGTGTGTACCGTATGTGTGTGATTACACCCATGTGCAGGA
 AGGGGGACGCGAGATGGCATGAAACACCGGAGAGAAGCAGAATAAACATTTACGCTCCCT
 TTTCCCCGGTCCCGCCCCCACATAGACAAGGCCTTTGTCTTAAGTGGAAAGCACACTG
 NGAGAACAGGANGAATGAGGCCACTCTCTGAGCAGCCAGCTTGCAGCCTGGCTCCTTTGG
 GAACAGAATGCTGTGAGGNACTTGATGATTGATGACTCTGCAGGAATGGCTGAAAACCAA
 GATTCCAGCCGATGAGCCACGGGACTCATAACAGTGCTTGTCCACAGAAACAACTGG
 ATTTTCGCAACAGAAAGGCTCGAGCCAGACACCATTCTTTGGACTGACCACCAGCCCAT
 CCTTCACTTGAGGAATG

Restriction Sites:

NotI-NotI

ACCN:

NM_005990

Insert Size:

4700 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_005990.2](#), [NP_005981.2](#)

RefSeq Size: 4398 bp

RefSeq ORF: 2907 bp

Locus ID: 6793

UniProt ID: [O94804](#)

Cytogenetics: 5q35.1

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a member of the Ste20 family of serine/threonine protein kinases, and is similar to several known polo-like kinase kinases. The protein can associate with and phosphorylate polo-like kinase 1, and overexpression of a kinase-dead version of the protein interferes with normal cell cycle progression. The kinase can also negatively regulate interleukin 2 expression in T-cells via the mitogen activated protein kinase kinase 1 pathway. [provided by RefSeq, Jul 2008]