

Product datasheet for **SC119871**

LKB1 (STK11) (NM_000455) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LKB1 (STK11) (NM_000455) Human Untagged Clone
Tag:	Tag Free
Symbol:	STK11
Synonyms:	hLKB1; LKB1; PJS
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000455 edited

```
ATGGAGGTGGTGGACCCGACGAGCTGGGCATGTTACGGAGGGCGAGCTGATGTCGGTG
GGTATGGACACGTTTCATCCACCGCATCGACTCCACCGAGGTCATCTACCAGCCGCGCCGC
AAGCGGGCCAAGCTCATCGGCAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTAC
GGCAAGGTGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTC AAGATCCTC
AAGAAGAAGAAGTTGCGAAGGATCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCAA
CTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGCTGGTGGATGTGTTATAACAACGAA
GAGAAGCAGAAAAATGTATATGGTGATGGAGTACTGCGTGTGTGGCATGCAGGAAATGCTG
GACAGCGTGCCGGAAGCGTTTCCCAGTGTGCCAGGCCACGGGTA CTCTGTGACGCTG
ATTGACGGCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGG
AACCTGCTGCTCACCACCGGTGGCACCCCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCA
CTGCACCCGTTTCGCGGGGACGACACCTGCCGGACCCAGCCAGGGCTCCCCGGCTTTCCAG
CCGCCCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACATCTGGTGC
GCTGGGGTCAACCTCTACAACATCACCACGGGTCTGTACCCCTTCGAAGGGGACAACATC
TACAAGTTGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCC GGCGGACTGTGGCCCC
CCGCTCTCTGACCTGCTGAAAGGGATGCTTGAGTACGAACCGGCCAAGAGGTTCTCCATC
CGGCAGATCCGGCAGCACAGCTGGTTCGGGAAGAAACATCCTCCGGCTGAAGCACCAGTG
CCCATCCCACCGAGCCCAGACACCAAGGACCCGGTGGCGCAGCATGACTGTGGTGCCTGAC
TTGGAGGACCTGCACGGCGCGGACGAGGACGAGGACCTTTCGACATCGAGGATGACATC
ATCTACACTCAGGACTTCACGGTGCCCGGACAGGTCCCAGAAGAGGAGGCCAGTCACAAT
GGACAGCGCCGGGGCCTCCCCAAGGCCGTGTGTATGAACGGCACAGAGGCCGGCGCAGCTG
AGCACCAAATCCAGGGCGGAGGGCCGGGCCCAACCCTGCCCGCAAGGCCTGCTCCGCC
AGCAGCAAGATCCGCGGCTGTCGGCCTGCAAGCAGCAGTGA
```



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5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_000455 unedited
CATTTTGTAAATACGAACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCCGGACGCC
CCCAGCCCCCGAACGCTCGCCCGGGCCGGGAGTCCGGCCCCCGGGAGGTCCGCT
CGGTCTGTCGGCGGAGCGTTTGTCTCTGGGACAGGCGGTGGGACCGGGGCGTCGCCGG
AGACGCCCCCAGCGAAGTTGGGCTCTCCAGGTGTGGGGTCCCGGGGGTAGCGACGTCCG
CGGACCCGGCCTGTGGGATGGGCGGCCCGGAGAAGACTGCGCTCGGCCGTGTTCACTATT
GTCCGTGGGCTGAGGTCCCGGAGGATGACCTAGCACTGAAAAGCCCCGGCCGGCCTCC
CCAGGGTCCCGAGGACGAAGTTGACCCTGACCGGGCCGTCTCCAGTTCGAGGCCGG
GTCCCACTGGAACCTCGCTCTGAGCCGCGTCCCGGACCCCGGTGCCCGCGGTCCGCA
GACCCTGCACCGGCTTGGACTCGCAGCCGGGACTGACGTGTAGAACAATCGTTTCTGTT
GGAAGAAGGGTTTTTCCCTTCTTTGGGGTTTTTGTGCCTTTTTTTTTCTTTTTTCT
TTGTAATTTTTGGAGAAGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGGGACTC
AGGGCTCGCGCGGGACTCCAGGACCCTGGGTCCAGCATGGAGGTGGTGGACCCGACGA
GCTGGGCATGTTACGGAGGCGAGCTGATGTCGGTGGGTATGAACACGTTCCATCCACC
CATCGACTCCACCGAGTCATCTACCAGCCGCGCCGACGCGGGCCAAGTCATCTGCAA
GTACCTGATGGGGACCTGCTGGGTGGAAGGCTTTACNGCAAGTGAANGAGGTGCTGG
AACTCCGANACACTGTGCAGGAAGGGCCGTGAGTCTCAGAAAAANAATGCAAGA
TCCCCACCGGGGAGGCAACGTGG
```

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_000455 unedited
CTATGGACCGGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTAAACCCACCTTTTATTTTTTTTTTAAAAAAAAAAAAAAAAAAAAA
AATTGGACCAACCAACAAAAACCAAGCGGCCGCCGTTTCCAGGGGGCCCTGCAT
GCATGGGGGGTCAAGACCCTGGTCTCCACACCCGCCAGTTGGTTTGGGGGGGGCCCC
GAACGGCCCTGGCCCCCTGCGGACCACAAGGCCACGGGCGGGCCAGTATTCTCCACAT
AAAGGGCATGGAGCCGCTTCTTCTTCCACGCCCGCCGAAAGGCTCCCCCGGGG
TGCAAAGTAAACAACCCGCTGCACTGCCGGGCGCAAGGGGGGAGGGCTGCCCCCGT
CCCTGTTGTCCCCTGCCCGGCCCTGAAGGGCCCTCCGGAGGTCTGGGGCGTGGCCGGC
ACAAAACCATGGCGGCCACCTCTCCGGGAGGGCGGGCGGAACCGGCAGAAAACTGAGGG
CCTGGCCCGGCCACCTGGCGGGGCTCTGAACACGGGCTGAAGGCGGCCACCTCACTGT
TGTTTGCAGGCCAACAGCCGGCGGATCTTGCTGCTGGCGGACCAGGCCTTGGCGGAGGG
TTGGGGGGCCCGCCCTCCGCCCTGAATTTGGTGTCTCAGCTGCGCCGCTCTGTGCCGTT
ATACACACGGCCTTGGGGAGGCCCGCGCTGTACATTGAGACTGGCCTCCTCTTNTGGG
ACCTGTCCGGGCACCGTGAAGTCTGAGTGTAAATGATGTCATCCTCCATGTCAAAGAGT
CCTGGTCTCGTCCGCGCGTGCAGGTCTCCAGTACGNACACATTATGCTGCGCACCGT
CCTTNGTTTGGCCTCGG
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Restriction Sites:

NotI-NotI

ACCN:

NM_000455

Insert Size:

2440 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
RefSeq:	NM_000455.4 , NP_000446.1
RefSeq Size:	3286 bp
RefSeq ORF:	1302 bp
Locus ID:	6794
UniProt ID:	Q15831 , A0A0S2Z4D1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Adipocytokine signaling pathway, mTOR signaling pathway
Gene Summary:	<p>This gene, which encodes a member of the serine/threonine kinase family, regulates cell polarity and functions as a tumor suppressor. Mutations in this gene have been associated with Peutz-Jeghers syndrome, an autosomal dominant disorder characterized by the growth of polyps in the gastrointestinal tract, pigmented macules on the skin and mouth, and other neoplasms. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]</p>