

Product datasheet for RC400284

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LKB1 (STK11) (NM_000455) Human Mutant ORF Clone

Product data:

Product Type: Mutant ORF Clones

Product Name: LKB1 (STK11) (NM_000455) Human Mutant ORF Clone

Mutation Description: W332*

Affected Codon#: 332

Affected NT#: c.996

Nucleotide Mutation: STK11 Mutant (W332*), Myc-DDK-tagged ORF clone of Homo sapiens serine/threonine kinase

11 (STK11) as transfection-ready DNA

Effect: Truncation

Symbol: STK11

Synonyms: hLKB1; LKB1; PJS

E. coli Selection: Kanamycin (25 ug/mL)

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

Tag: Myc-DDK
ACCN: NM 000455

ORF Size: 993 bp

Restriction Sites: Sgfl-Mlul

LKB1 (STK11) (NM_000455) Human Mutant ORF Clone - RC400284

ORF Nucleotide Sequence:

>RC400284 representing NM_000455
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGTGGTGGACCCGCAGCAGCTGGGCATGTTCACCGGAGGGCGAGCTGATGTCGGTGGGTATGGACA
CGTTCATCCACCGCATCGACTCCACCGAGGTCATCTACCAGCCGCCGCAAGCTGGGCCAAGCTCATCGG
CAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTACGGCAAGGTGAAGGAGGTGCTGGACTCGGAG
ACGCTGTGCAGGAGGGCCGTCAAGATCCTCAAGAAGAAGAAGTTGCGAAGGAGTCCCCAACGGGGAGGCCA
ACGTGAAGAAGAAATTCAACTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGCTGGTGGATGTGTT
ATACAACGAAGAAGAACAATGTATATAGGTGATGGAGTACTTCCAGCTGGTGGACTGCTG
GACAGCCGTGCCGGAGAAACCGTTTCCCAGTGTGCCAAGGGCCCACGGGTACTTCTGTCAGCTGATTGACGGCC
TGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACCTGCTGCTCACCACCGG
TGGCACCCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTCGCGGCGGACACCTTCCCGGCT
TCAAGGTGGACATCTGGTCGGCTGGCCGAGGATTGCCAACGGCCTGGACACCTTCTCCGGCT
TCAAGGTGGACATCTGGTCGGCTGGGGTCACCCCTCTACAACATCACCACGGGTCTGTACCCCTTCGAAGG
GGACAACATCTACAAGTTGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCCGGGCGACGTCCC
CCGCTCTCTGACCTGCTGAAAGGGATGCTTGAGTACGAACCACGGCCAAGAGGTTCTCCATCCGGCAGATCC
GGCAGCACAGCTGGTTCCGGAAGAAACATCCTCCGGCTGAAGCACCAGTGCCCATCCCACCGAGCCCAGA
CACCAAGGACCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC400284 representing NM_000455 Red=Cloning site Green=Tags(s)

MEVVDPQQLGMFTEGELMSVGMDTFIHRIDSTEVIYQPRRKRAKLIGKYLMGDLLGEGSYGKVKEVLDSE TLCRRAVKILKKKKLRRIPNGEANVKKEIQLLRRLRHKNVIQLVDVLYNEEKQKMYMVMEYCVCGMQEML DSVPEKRFPVCQAHGYFCQLIDGLEYLHSQGIVHKDIKPGNLLLTTGGTLKISDLGVAEALHPFAADDTC RTSQGSPAFQPPEIANGLDTFSGFKVDIWSAGVTLYNITTGLYPFEGDNIYKLFENIGKGSYAIPGDCGP PLSDLLKGMLEYEPAKRFSIRQIRQHSWFRKKHPPAEAPVPIPPSPDTKDR

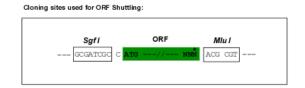
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

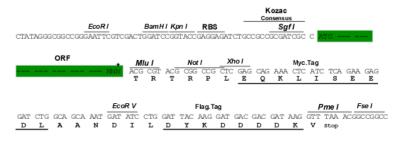
Restriction Sites:

Sgfl-Mlul



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

OTI Disclaimer:

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.

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).

RefSeq: NP 000446

 RefSeq Size:
 3286 bp

 RefSeq ORF:
 1302 bp

 Locus ID:
 6794

Domains:

Cytogenetics: 19p13.3

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Adipocytokine signaling pathway, mTOR signaling pathway

pkinase, TyrKc, S_TKc



ORIGENE

MW:

37 kDa

Gene Summary:

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]