

## STK11 cDNA

Catalog Number: ATGD0186

### PRODUCT INFORMATION

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**Catalog number**

ATGD0186

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_000446.1

**Alternative Names**

Serine/threonine-protein kinase 11, Polarization-related protein LKB1, PJS

**mRNA Refseq**

NM\_000455.4

**OMIM**

602216

**Chromosome location**

19p13.3

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

1302bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted Nde I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

# STK11 cDNA

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STK11, 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.

## DATA

### Sequence nucleotides

```
ATGGAGGTGGTGGACCCGCAGCAGCTGGGCATGTTACGGAGGGCGAGCTGATGTCGGTGGGTATGGACACGTTTCATCCA  
CCGCATCGACTCCACCGAGGTCATCTACCAGCCGCGCCGCAAGCGGGCCAAGTCTATCGGCAAGTACCTGATGGGGGACC  
TGCTGGGGGAAGGCTCTTACGGCAAGGTGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTCAGATCCT  
CAAGAAGAAGAAGTTGCGAAGGATCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCAACTACTGAGGAGGTTACGGC  
ACAAAAATGTCATCCAGCTGGTGGATGTGTTATAACAACGAAGAGAAGCAGAAAATGTATATGGTGTGGAGTACTGCGTGT  
GTGGCATGCAGGAAATGCTGGACAGCGTGCCGGAGAAGCGTTTCCAGTGTGCCAGGCCACGGGTACTTCTGTCAGCTG  
ATTGACGGCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACCTGCTGCTCACCACCGG  
TGGCACCCTCAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTCCGCGCGGACGACACCTGCCGGACCAGCC  
AGGGCTCCCCGGCTTTCCAGCCGCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACATCTGGTCGG  
CTGGGGTACCCTCTACAACATCACCACGGGTCTGTACCCCTTGAAGGGGACAACATCTACAAGTTGTTTGAGAACATCGG  
GAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCGCTCTCTGACCTGCTGAAAGGGATGCTTGAGTACGAACCGG  
CCAAGAGGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAACATCCTCCGGCTGAAGCACCAGTGCCTA  
TCCCACCGAGCCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGGTGGCGTACTTGGAGGACCTGCACGGCGCGGAC  
GAGGACGAGGACCTCTTCGACATCGAGGATGACATCATCTACACTCAGGACTTCACGGTGCCCGGACAGGTCCCAGAAGA  
GGAGGCCAGTACAATGGACAGCGCCGGGGCCTCCCCAAGGCCGTGTGTATGAACGGCACAGAGGGCGGCGCAGCTGAGC  
ACCAAATCCAGGGCGGAGGGCCGGCCCCCAACCCTGCCCGCAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGT  
CGGCCTGCAAGCAGCAGTGA
```

### Transaction Sequence

```
MEVVDPPQLG MFTEGELMSV GMDTFIHRID STEVIYQPRR KRAKLIGKYL MGDLLGEGSY GKVKEVLDSE TLCRRRAVKIL  
KKKKLRRIPN GEANVKKEIQ LLRRLRHKNV IQLVDVLYNE EKQKMYMVM EYCVCGMQEML DSVPEKRFV CQAHGYFCQL  
IDGLEYLHSQ GIVHKDIKPG NLLLTGGTL KISDLGVAEA LHPFAADDTC RTSQGSFAFQ PPEIANGLDT FSGFKVDIWS  
AGVTLYNITT GLYPFEGDNI YKLFENIGKG SYAIPGDCGP PLSDLLKGM EYEPAKRFSI RQIRQHSWFR KKHPPAEAPV  
PIPPSPDTKD RWRSM TVVPY LEDLHGADED EDLFDIEDDI IYQDFTVPG QVPEEEASHN GQRRGLPKAV CMNGTEAAQL  
STKSRAEGRA PNPARKACSA SSKIRRLSAC KQQ
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