

STK11 cDNA

Catalog Number: ATGD0186

PRODUCT INFORMATION

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

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

Catalog Number: ATGD0186

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
TGCTGGGGGAAGGCTCTTACGGCAAGGTGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTC AAGATCCT
CAAGAAGAAGAAGTTGCGAAGGATCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTC AACTACTGAGGAGGTTACGGC
ACAAAAATGTCATCCAGCTGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAATGTATATGGTGATGGAGTACTGCGTGT
GTGGCATGCAGGAAATGCTGGACAGCGTGCCGGAGAAGCGTTTCCAGTGTGCCAGGCCACGGGTACTTCTGTCAGCTG
ATTGACGGCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACCTGCTGCTCACCACCGG
TGGCACCCTCAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTCCGCGCGGACGACACCTGCCGGACCAGCC
AGGGCTCCCCGGCTTTCCAGCCGCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACATCTGGTCGG
CTGGGGTACCCTCTACAACATCACCACGGGTCTGTACCCCTTGAAGGGGACAACATCTACAAGTTGTTTGAGAACATCGG
GAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCGCTCTCTGACCTGCTGAAAGGGATGCTTGAGTACGAACCGG
CCAAGAGGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAACATCCTCCGGCTGAAGCACCAGTGCCTA
TCCCACCGAGCCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGGTGCCGTA CTGGAGGACCTGCACGGCGCGGAC
GAGGACGAGGACCTCTTCGACATCGAGGATGACATCATCTACACTCAGGACTTCACGGTGCCCGGACAGGTCCCAGAAGA
GGAGGCCAGTACAATGGACAGCGCCGGGGCCTCCCCAAGGCCGTGTGTATGAACGGCACAGAGGCGGCGCAGCTGAGC
ACCAAATCCAGGGCGGAGGGCCGGGCCCCCAACCCTGCCCGCAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGT
CGGCCTGCAAGCAGCAGTGA
```

Transaction Sequence

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