

STRADA cDNA

Catalog Number: ATGD0156

PRODUCT INFORMATION

Catalog number

ATGD0156

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001159441.1

Alternative Names

LYK5, NY-BR-96, PMSE, Stlk, STRAD

mRNA Refseq

NM_001165969.1

OMIM

608626

Chromosome location

17q23.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

945bp

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 BamH 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

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STRADA encoded by this gene contains a STE20-like kinase domain, but lacks several residues that are critical for catalytic activity, so it is termed a 'pseudokinase'. STRADA forms a heterotrimeric complex with serine/threonine kinase 11 (STK11, also known as LKB1) and the scaffolding protein calcium binding protein 39 (CAB39, also known as MO25). STRADA activates STK11 leading to the phosphorylation of both proteins and excluding STK11 from the nucleus. STRADA is necessary for STK11-induced G1 cell cycle arrest. A mutation in this gene has been shown to result in polyhydramnios, megalencephaly, and symptomatic epilepsy (PMSE) syndrome. Multiple transcript variants encoding different isoforms have been found for this gene. Additional transcript variants have been described but their full-length nature is not known.

DATA**Sequence nucleotides**

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ATGTCATTTCTTGTAAGTAAACCAGAGCGAATCAGGACCAATGATGCGAGCTCAGAGTCAATAGCATCCTTCTCTAAACAGG
AGGTCATGAGTAGCTTTCTGCCAGAGGGAGGGTGTACGAGCTGCTCACTGTGATAGGCAAAGGATTTGAGGACCTGATGA
CTGTGAATCTAGCAAGGTACAAACCAACAGGAGAGTACGTGACTGTACGGAGGATTAACCTAGAAGCTTGTTCCAATGAGA
TGGTAACATTCTTGCAAGGCGAGCTGCATGTCTCCAAACTCTTCAACCATCCCAATATCGTGCCATATCGAGCCACTTTTATT
GCAGACAATGAGCTGTGGGTTGTCACATCATTGATGGCATAACGGTTCTGCAAAAGATCTCATCTGTACACACTTCATGGATG
GCATGAATGAGCTGGCGATTGCTTACATCCTGCAGGGGGTGTGAAGGCCCTCGACTACATCCACCACATGGGATATGTAC
ACAGGAGTGTCAAAGCCAGCCACATCCTGATCTCTGTGGATGGGAAGGTCTACCTGTCTGGTTTTCGCGAGCAACCTCAGCA
TGATAAGCCATGGGCAGCGGCAGCGAGTGGTCCACGATTTTCCCAAGTACAGTGTCAAGGTTCTGCCGTGGCTCAGCCCCG
AGGTCCTCCAGCAGAATCTCCAGGGTTATGATGCCAAGTCTGACATCTACAGTGTGGGAATCACAGCCTGTGAAGTGGCCA
ACGGCCATGTCCCCTTTAAGGATATGCCTGCCACCCAGATGCTGCTAGAGAACTGAACGGCACAGTGCCTGCCTGTTGG
ATACCAGCACCATCCCCGCTGAGGAGCTGACCATGAGCCCTTCGCGCTCAGTGGCCAACCTCTGGCCTGAGTGACAGCCTGA
CCACCAGCACCCCCGGCCCTCCAACGGCCAGTGCCAGCACCCCTCCTGA
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Transaction Sequence

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MSFLVSKPER IRTNDASSES IASFSKQEVMS SFLPEGGCY ELLTVIGKGF EDLMTVNLARYKPTGEYVTV RRINLEACSN
EMVTFLQGEL HVSKLFNHPN IVPYRATFIA DNELWVVTFSMAYGSAKDLI CTHFMDGMNE LAIAYILQGV LKALDYIHHM
GYVHRSVKAS HILISVDGKVVYLSGLRSNLS MISHGQRQRV VHDFPKYSVK VLPWLSPEVL QQNLQGYDAK
SDIYVSGITACELANGHVPF KDMPATQMLL EKLNGTVPCL LDTSTIPAE E LTMSPSRVA NSGLSDSLTTSTPRPSNGPV PAPS
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