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Product datasheet for MR229169

Stk11 (NM_001301854) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stk11 (NM_001301854) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stk11
Synonyms:	AA408040; Lkb1; Par-4; R75140
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229169 representing NM_001301854 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTATATGGTGATGGAGTACTGCGTATGTGGCATGCAGGAGATGCTGGACAGTGTGCCGGAGAAGCGCT TCCCTGTGTGCCAAGCTCATGGGTACTTCCGCCAGCTGATTGACGGCCTGGAATACCTACACAGCCAGGG CATTGTTCACAAGGACATCAAGCCGGGCAACCTGCTACTCACCACCAATGGCACACTCAAGATCTCCGAC CTCGGTGTTGCCGAGGCCCTGCACCCTTTCGCTGTGGATGACACCTGCCGGACAAGCCAGGGCTCCCCGG CCTTCCAGCCTCCTGAGATTGCCAATGGACTGGACACCTTTTCAGGTTTCAAGGTGGACATCTGGTCAGC TGGGGTCACACTTTACAACATCACCACGGGCCTGTACCCATTTGAGGGGGACAATATCTACAAGCTCTTT GAGAACATTGGGAGAGGAGACTTCACCATCCCTTGTGACTGCGGCCCACCACTCTCTGACCTACTCCGAG GGATGTTGGAGTATGAGCCGGCCAAGAGGTTCTCCATCCGACAGATTAGGCAGCACAGCTGGTTCCGGAA GAAACACCCTCTGGCTGAGGCGCTCGTACCTATCCCACCAAGCCCAGACACTAAGGACCGCTGGCGCAGT ATGACTGTAGTGCCCTACCTGGAGGACCTGCATGGCCGTGCGGAGGAGGAGGAGGAGGAAGACTTGTTTG ACATTGAGGACGGCATTATCTACACCCAGGACTTCACAGTGCCTGGACAGGTCCTGGAAGAGGAAGTGGG TCAGAATGGACAGAGCCACAGTTTGCCCAAGGCTGTTTGTGTGAATGGCACAGAGCCCCAGCTCAGCAGC AAGGTGAAGCCAGAAGGCCGACCTGGCACCGCCAACCCTGCGCGCAAGGTGTGCTCCAGCAACAAGATCC GCCGGCTCTCGGCCTGCAAGCAGCAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

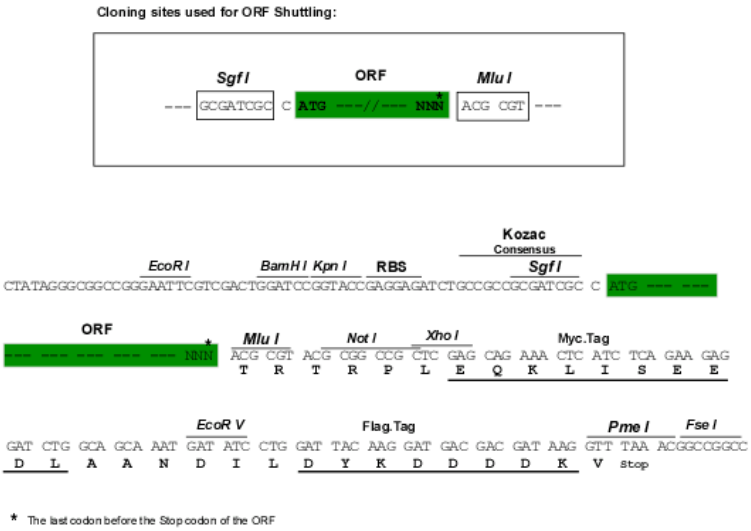
>MR229169 representing NM_001301854
Red=Cloning site Green=Tags(s)

MYMVMEYCVCGMQEMLDSVPEKRFPVCQAHGYFRQLIDGLEYLHSQGIVHKDIKPGNLLLTTNGTLKISD
LGVAEALHPFAVDDTCRTSQGSPAFQPPEIANGLDTFSGFKVDIWSAGVTLYNITTGLYPFEGDNIYKLF
ENIGRGDFTIPCDCGPPLSDLLRGMLEYEPAKRFSIRQIRQHSWFRKKHPLAEALVPIPPSPDTKDRWRS
MTVVPYLEDLHGRAEEEEEEDLFDIEDGIIYTQDFTVPGQVLEEEVGQNGQSHSLPKAVCVNGTEPQLSS
KVKPEGRPGTANPARKVCSSNKIRRLSACKQQ

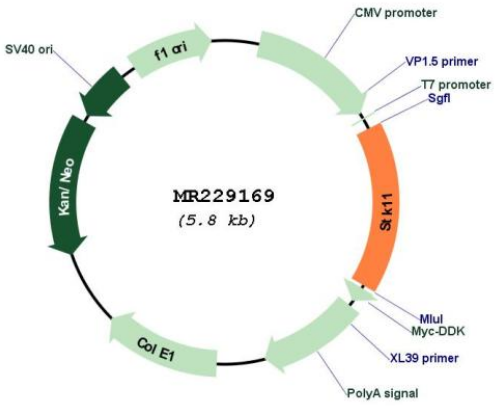
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301854

ORF Size: 936 bp

OTI Disclaimer:	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).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001301854.2
RefSeq Size:	2378 bp
RefSeq ORF:	939 bp
Locus ID:	20869
UniProt ID:	Q9WTK7
Cytogenetics:	10 C1
MW:	35.4 kDa
Gene Summary:	This gene encodes a member of the serine/threonine kinase family. The encoded protein, a known tumor suppressor, activates (via phosphorylation) adenine monophosphate-activated protein kinase (AMPK) and AMPK-related kinase proteins. This upstream regulation of the AMPK pathway is thought to regulate a number of different processes, including cell metabolism, cell polarity, apoptosis and DNA damage response. Mutations in a similar gene in human have been associated with Peutz-Jeghers syndrome. Alternative splicing results in multiple transcript variants, including the S isoform which plays a potential role in spermiogenesis. [provided by RefSeq, Sep 2014]