

Product datasheet for **MC215720**

Stk11 (NM_011492) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stk11 (NM_011492) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stk11
Synonyms:	AA408040; Lkb1; Par-4; R75140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC215720 representing NM_011492
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGTGGCGGACCCCGAGCCGTTGGCCCTTTCTCCGAGGGCGAGCTGATGTCGGTGGGCATGGACA
 CCTTCATCCACCGCATCGACTCCACCGAGGTAATCTACCAGCCGCGCCGCAAAACGCGCCAAGCTCATCGG
 CAAGTACCTGATGGGGGACCTGCTCGGGGAGGGCTCGTACGGAAGGTGAAGGAGGTGCTGGACTCCGAG
 ACCTTATGCCGCAGGGCGGTCAAGATCCTCAAGAAGAAAAAGCTGCGCAGGATCCCCAATGGAGAGGCCA
 ACGTCAAGAAGGAGATCCAGCTGCTGCGGCGGCTGCGGCATCGGAATGTGATCCAGCTTGTGGACGTGCT
 GTACAATGAGGAGAAGCAGAAGATGTATATGGTATGGAGTACTGCGTATGTGGCATGCAGGAGATGCTG
 GACAGTGTGCCGAGAAGCGCTCCCTGTGTGCCAAGCTCATGGTACTTCCGCCAGCTGATTGACGGCC
 TGAATACCTACACAGCCAGGGCATTGTTACAAGGACATCAAGCCGGGCAACCTGCTACTACCACCAA
 TGGCACACTCAAGATCTCCGACCTCGGTGTTGCCGAGGCCCTGCACCCTTCGCTGTGGATGACACCTGC
 CGGACAAGCCAGGGCTCCCCGGCCTCCAGCCTCCTGAGATTGCCAATGGACTGGACACCTTTTCAGGTT
 TCAAGGTGGACATCTGGTCAGCTGGGGTACACCTTACAACATCACCCAGGGCCTGTACCCATTTGAGGG
 GGACAATCTACAAGCTCTTTGAGAACATTGGGAGAGGAGACTTACCATCCCTTGTGACTGCGGCCCA
 CCACTCTCTGACCTACTCCGAGGGATGTTGGAGTATGAGCCGGCCAAGAGGTTCTCCATCCGACAGATTA
 GGCAGCACAGCTGGTCCGGAAGAAACACCCTCTGGCTGAGGGCGCTCGTACCTATCCCACCAAGCCAGA
 CACTAAGGACCGCTGGCGCAGTATGACTGTAGTGCCCTACCTGGAGGACCTGCATGGCCGTGCGGAGGAG
 GAGGAGGAGGAAGACTTGTGACATTGAGGACGGCATTATCTACACCCAGGACTTACAGTGCCTGGAC
 AGTCTCGAAGAGGAAGTGGTCCAGAATGGACAGAGCCACAGTTGCCAAGGCTGTTTGTGTGAATGG
 CACAGAGCCCGAGCTCAGCAGCAAGGTGAAGCCAGAAGGCCGACCTGGCACCGCCAACCTGCGCCGAAG
 GTGTGCTCCAGCAACAAGATCCGCCGGCTCTCGGCCTGCAAGCAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_011492

Insert Size: 1311 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC052379](#), [AAH52379](#)

RefSeq Size: 1643 bp

RefSeq ORF: 1311 bp

Locus ID: 20869

UniProt ID: [Q9WTK7](#)

Cytogenetics: 10 C1

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]

Transcript Variant: This variant (1) encodes the longest isoform (L, see PMID:18774945).

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.