

## Product datasheet for **MR206953**

### Stk11 (NM\_011492) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stk11 (NM_011492) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR206953 representing NM\_011492  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGTGGCGGACCCCGAGCCGTTGGCCCTTTCTCCGAGGGCGAGCTGATGTCGGTGGGCATGGACA  
 CCTTCATCCACCGCATCGACTCCACCGAGGTAATCTACCAGCCGCGCGAAACGCGCCAAGCTCATCGG  
 CAAGTACCTGATGGGGGACCTGCTCGGGGAGGGCTCGTACGGAAGGTGAAGGAGGTGCTGGACTCCGAG  
 ACCTTATGCCGAGGGCGGTCAAGATCCTCAAGAAGAAAAAGCTGCGCAGGATCCCAATGGAGAGGCCA  
 ACGTCAAGAAGGAGATCCAGCTGCTGCGCGGCTGCGGCATCGGAATGTGATCCAGCTTGTGGACGTGCT  
 GTACAATGAGGAGAAGCAGAAGATGTATATGGTATGGAGTACTGCGTATGTGGCATGCAGGAGATGCTG  
 GACAGTGTCCGGAAGCGCTCCCTGTGTGCCAAGCTCATGGTACTTCGCCAGCTGATTGACGGCC  
 TGAATACCTACACAGCCAGGCATTGTTACAAGGACATCAAGCCGGGCAACCTGCTACTACCACCAA  
 TGGCACACTCAAGATCTCCGACCTCGGTGTTGCCGAGGCCCTGCACCCTTCGCTGTGGATGACACCTGC  
 CGACAAGCCAGGGCTCCCGGCCCTCCAGCCTCCTGAGATTGCCAATGGACTGGACACCTTTTCAGGTT  
 TCAAGGTGGACATCTGGTCAGCTGGGGTACACCTTACAACATACCACGGGCTGTACCCATTTGAGGG  
 GGACAATCTACAAGCTCTTTGAGAATTTGGGAGAGGAGACTTACCATCCCTTGTGACTGCGGCCCA  
 CCACTCTCTGACCTACTCCGAGGGATGTTGGAGTATGAGCCGGCCAAGAGGTTCTCCATCCGACAGATTA  
 GGCAGCACAGCTGGTCCGGAAGAAACACCCTCTGGCTGAGGCGCTCGTACCTATCCCAAGCCGAG  
 CACTAAGGACCGCTGGCGCAGTATGACTGTAGTGCCCTACCTGGAGGACCTGCATGGCCGTGCGGAGGAG  
 GAGGAGGAGGAAGACTTGTGACATTGAGGACGGCATTATCTACACCCAGGACTTACAGTGCCTGGAC  
 AGTCTTGAAGAGGAAGTGGTCAAGATGGACAGAGCCACAGTTGCCAAGGCTGTTGTGTGAATGG  
 CACAGAGCCCGAGCTCAGCAGCAAGGTGAAGCCAGAAGGCCGACCTGGCACCGCCAACCTGCGCGCAAG  
 GTGTGCTCCAGCAACAAGATCCGCCGGCTCTCGGCCTGCAAGCAGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206953 representing NM\_011492  
 Red=Cloning site Green=Tags(s)

MDVADPEPLGLFSEGELMSVGMDFIHRIDSTEVYQPRRKRAKLIGKYLMDLLGEGSYGKVKVLDSE  
 TLCRRRAVKILKKKLRIPNGEANVKKEIQLRRLRHRNVIQLVDVLYNEEKQKMYMMEYCVCGMQEML  
 DSVPEKRFPPVCQAHGYFRQLIDGLEYLHSQIVHKDIKPGNLLLTTNGTLKISDLGVAEALHPFAVDDTC  
 RTSQGSFAFPPEIANGLDTFSGFKVDIWSAGVTLYNIITGLYPFEGDNIYKLFENIGRGDFTIPCDCGP  
 PLSDLLRGMLEYEPAKRFSIRQIRQHSWFRKKHPLAEALVIPPSPDTRWRWSMTVVPYLEDLHGAAEE  
 EEEEDLFDIEDGIIYTQDFVPGQVLEEEVQNGQSHSLPKAVCVNGTEPQLSSKVKPEGRPGTANPARK  
 VCSSNKIRRLSACKQQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9010\\_c09.zip](https://cdn.origene.com/chromatograms/mm9010_c09.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_011492

**ORF Size:** 1308 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\\_011492.5](#)

**RefSeq Size:** 1643 bp

**RefSeq ORF:** 1311 bp

**Locus ID:** 20869

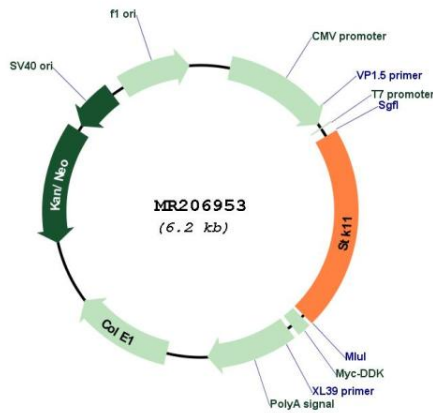
**UniProt ID:** [Q9WTK7](#)

**Cytogenetics:** 10 C1

**MW:** 49.7 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]

**Product images:**



Circular map for MR206953