

## Product datasheet for **MG206953**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stk11 (NM_011492) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stk11
Synonyms:	AA408040; Lkb1; Par-4; R75140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206953 representing NM_011492 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGTGGCGGACCCCGAGCCGTTGGCCCTTTCTCCGAGGGCGAGCTGATGTCGGTGGGCATGGACA  
CCTTCATCCACCGCATCGACTCCACCGAGGTAATCTACCAGCCGCGCCGAAACGCGCCAAGCTCATCGG  
CAAGTACCTGATGGGGACCTGCTCGGGAGGGCTCGTACGGCAAGGTGAAGGAGGTGCTGGACTCCGAG  
ACCTTATGCCGCGAGGGCGGTCAAGATCCTCAAGAAGAAAAAGCTGCGCAGGATCCCCAATGGAGAGGCCA  
ACGTCAAGAAGGAGATCCAGCTGCTGCGGCGGCTGCGGCATCGGAATGTGATCCAGCTTGTGGACGTGCT  
GTACAATGAGGAGAAGCAGAAGATGTATATGGTATGGAGTACTGCGTATGTGGCATGCAGGAGATGCTG  
GACAGTGTGCCGGAAGCGCTTCCCTGTGTGCCAAGCTCATGGGTACTTCCGCCAGCTGATTGACGGCC  
TGGAAATACCTACACAGCCAGGGCATTGTTCAACAAGGACATCAAGCCGGGCAACCTGCTACTCACCACCA  
TGGCACACTCAAGATCTCCGACCTCGGTGTTGCCGAGGCCCTGCACCCTTTCGCTGTGGATGACACCTGC  
CGGACAAGCCAGGGCTCCCGGCCCTCCAGCCTCCTGAGATTGCCAATGGACTGGACACCTTTTCAGGTT  
TCAAGGTGGACATCTGGTCAGCTGGGGTACACCTTTACAACATCACACGGGCTGTACCCATTTGAGGG  
GGACAATCTACAAGCTCTTTGAGAACATTGGGAGAGGAGACTTCACCATCCCTTGTGACTGCGGCCCA  
CCACTCTGACCTACTCCGAGGGATGTTGGAGTATGAGCCGGCCAAGAGTTCTCCATCCGACAGATTA  
GGCAGCACAGCTGGTCCGGAAGAAACACCCTCTGGCTGAGGCGCTCGTACCTATCCCACCAAGCCAGA  
CACTAAGGACCGCTGGCGCAGTATGACTGTAGTGCCCTACCTGGAGGACCTGCATGGCCGTGCGGAGGAG  
GAGGAGGAGGAAGACTTGTGTTGACATTGAGGACGGCATTATCTACACCCAGGACTTCACAGTGCCTGGAC  
AGGTCCTGGAAGAGGAAGTGGGTCAGAATGGACAGAGCCACAGTTTGCCCAAGGCTGTTTGTGTAATGG  
CACAGAGCCCCAGCTCAGCAGCAAGGTGAAGCCAGAAGGCCGACCTGGCACCGCCAACCTGCGCGCAAG  
GTGTGCTCCAGCAACAAGATCCGCGGCTCTCGGCTGCAAGCAGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206953 representing NM\_011492  
Red=Cloning site Green=Tags(s)

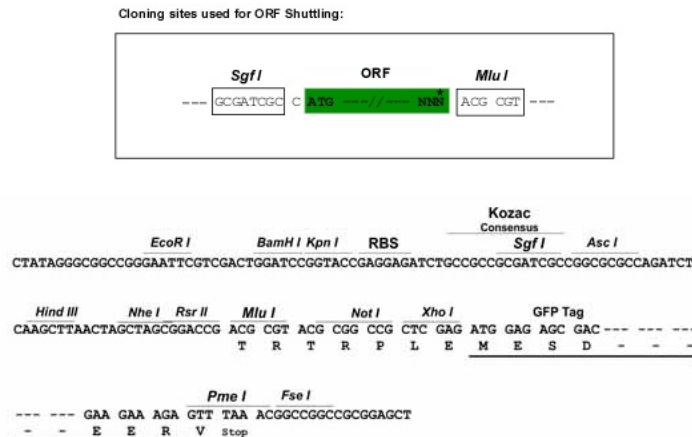
MDVADPEPLGLFSEGELMSVGMDFIHRIDSTEVYQPRRKRAKLIGKYLMDLLGEGSYGKVKEVLDSE  
 TLCRRAVKILKKKLRIPNGEANVKKEIQLRRLRHRNVIQLVDVLYNEEKQKMYMMEYCVCGMQEML  
 DSVPEKRFPPVCQAHGYFRQLIDGLEYLHSQGIHVHKDIKPGNLLLTTNGTLKISDLGVAEALHPFAVDDTC  
 RTSQGSFAFPPEIANGLDTFSGFKVDIWSAGVTLYNIITGLYPFEGDNIYKLFENIGRGDFTIPDCGP  
 PLSDLLRGMLEYEPAKRFSIRQIRQHSWFRKKHPLAEALVPIPPSPDTKDRWRSMTVVPYLEDLHGRAEE  
 EEEEDLFDIEDGIIYTQDFTVPGQVLEEEVQNGQSHSLPKAVCVNGTEPQLSSKVKPEGRPGTANPARK  
 VCSSNKIRRLSACKQQ

TRTRPLE - GFP Tag - V

**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

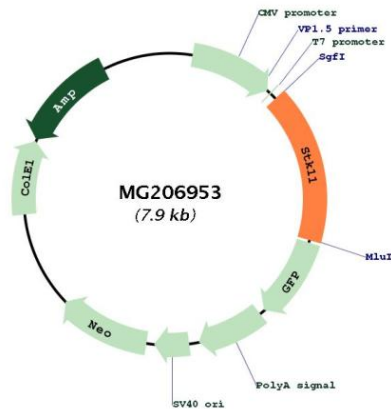
**Locus ID:** 20869

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

**Cytogenetics:** 10 C1

**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 MG206953