

## Product datasheet for **MC227561**

### Stk11 (NM\_001301853) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Stk11 (NM\_001301853) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Stk11  
**Synonyms:** AA408040; Lkb1; Par-4; R75140  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227561 representing NM\_001301853  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACGTGGCGGACCCGAGCCGTTGGGCCTTTTCTCCGAGGGCGAGCTGATGTCGGTGGGCATGGACA  
 CCTTCATCCACCGCATCGACTCCACCGAGGTAATCTACCAGCCGCGCCGAAACGCGCCAAGCTCATCGG  
 CAAGTACCTGATGGGGACCTGCTCGGGGAGGGCTCGTACGGCAAGGTGAAGGAGGTGCTGGACTCCGAG  
 ACCTTATGCCGCAAGGCGGTCAAGATCCTCAAGAAGAAAAAGCTGCGCAGGATCCCAATGGAGAGGCCA  
 ACGTCAAGAAGGAGATCCAGCTGCTGCGGCGGCTGCGGCATCGGAATGTGATCCAGCTTGTGGACGTGCT  
 GTACAATGAGGAGAAGCAGAAGATGTATATGGTATGGAGTACTGCGTATGTGGCATGCAGGAGATGCTG  
 GACAGTGTGCCGAGAAGCGCTTCCCTGTGTGCCAAGCTCATGGTACTTCCGCCAGCTGATTGACGGCC  
 TGGAAATACCTACACAGCCAGGGCATTGTTCAACAAGGACATCAAGCCGGGCAACCTGCTACTCACCACAA  
 TGGCACACTCAAGATCTCCGACCTCGGTGTTGCCGAGGCCCTGCACCCTTTCGCTGTGGATGACACCTGC  
 CGGACAAGCCAGGGCTCCCCGGCCTTCCAGCCTCCTGAGATTGCCAATGGACTGGACACCTTTTCAGGTT  
 TCAAGGTGGACATCTGGTCAGCTGGGTCACACTTACAACATCACCACGGGCCGTACCCATTTGAGGG  
 GGACAATATCTACAAGCTCTTTGAGAACATTGGGAGAGGAGACTTCACCATCCCTTGTGACTGCGGCCCA  
 CCACTCTCTGACCTACTCCGAGGGATGTTGGAGTATGAGCCGGCCAAGAGTTCTCCATCCGACAGATTA  
 GGCAGCACAGCTGGTTCGGAAGAAACACCCTCTGGCTGAGGCGCTCGTACCTATCCCACCAAGCCAGA  
 CACTAAGGACCGCTGGCGCAGTATGACTGTAGTGCCTACCTGGAGGACCTGCATGGCCGTGCGGAGGAG  
 GAGGAGGAGGAAGACTTGTGACATTGAGGACGGCATTATCTACCCAGGACTTCACAGTGCCTGGTG  
 TCGAGGAGGCGCCGAGGAGGGCTTAGCGAGGATGCATGCGACACATGCATGTGAAGAGCCAGGGCGC  
 AGCCCTTCTGGAGAGGAGCCCGAGGAGGGTTTGGGGCTTTAGTGT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001301853
<b>Insert Size:</b>	1239 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001301853.1</a></u> , <u><a href="#">NP_001288782.1</a></u>
<b>RefSeq Size:</b>	2054 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	20869
<b>UniProt ID:</b>	<u><a href="#">Q9WTK7</a></u>
<b>Cytogenetics:</b>	10 C1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (S, see PMID:18774945) has a distinct C-terminus and is shorter than isoform L. 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.</p>