

## Product datasheet for MR229772

### Stk11 (NM\_001301853) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Stk11 (NM\_001301853) 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:** >MR229772 representing NM\_001301853  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGTGGCGGACCCCGAGCCGTTGGGCCTTTTCTCCGAGGGCGAGCTGATGTCGGTGGGCATGGACA  
CCTTCATCCACCGCATCGACTCCACCGAGGTAATCTACCAGCCGCGCCGAAACGCGCCAAGCTCATCGG  
CAAGTACCTGATGGGGACCTGCTCGGGGAGGGCTCGTACGGCAAGGTGAAGGAGGTGCTGGACTCCGAG  
ACCTTATGCCGCAAGGCGGTCAAGATCCTCAAGAAGAAAAGCTGCGCAGGATCCCAATGGAGAGGCCA  
ACGTCAAGAAGGAGATCCAGCTGCTGCGGCGGCTGCGGCATCGGAATGTGATCCAGCTTGTGGACGTGCT  
GTACAATGAGGAGAAGCAGAAGATGTATATGGTATGGAGTACTGCGTATGTGGCATGCAGGAGATGCTG  
GACAGTGTGCCGAGAAGCGCTTCCCTGTGTGCCAAGCTCATGGTACTTCCGCCAGCTGATTGACGGCC  
TGAATACCTACACAGCCAGGGCATTGTTCAACAAGGACATCAAGCCGGGCAACCTGCTACTCACCACAA  
TGGCACACTCAAGATCTCCGACCTCGGTGTTGCCGAGGCCCTGCACCCTTTCGCTGTGGATGACACCTGC  
CGACAAGCCAGGGCTCCCCGGCCTTCCAGCCTCCTGAGATTGCCAATGGACTGGACACCTTTTCAGGTT  
TCAAGGTGGACATCTGGTCAGCTGGGTCACACTTACAACATCACCACGGCCGTGATCCCATTTGAGGG  
GGACAATATCTACAAGCTCTTTGAGAACATTGGGAGAGGAGACTTACCATCCCTTGTGACTGCGGCCCA  
CCTCTCTGACCTACTCCGAGGGATGTTGGAGTATGAGCCGGCCAAGAGTTCTCCATCCGACAGATTA  
GGCAGCACAGCTGGTTCCGGAAGAAACACCCTCTGGCTGAGGCGCTCGTACCTATCCCACCAAGCCAGA  
CACTAAGGACCGCTGGCGCAGTATGACTGTAGTGCCTACCTGGAGGACCTGCATGGCCGTGCGGAGGAG  
GAGGAGGAGGAAGACTTGTGACATTGAGGACGGCATTATCTACCCAGGACTTACAGTGCCTGGTG  
TCGAGGAGGCGCCGAGGAGGGCTTAGCGAGGATGCATGCGACACATGCATGTGAAGAGCCAGGGCGC  
AGGCCCTCCTGGAGAGGAGCCCGAGGAGGGTTTGGGGCTTTAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR229772 representing NM\_001301853  
 Red=Cloning site Green=Tags(s)

MDVADPEPLGLFSEGELMSVGMDFIHRIDSTEVYQPRRKRAKLIQKYLMDLLGEGSYGKVKVLDSE  
 TLCRRAVKILKKKLRIPNGEANVKKEIQLRRLRHRNVIQLVDVLYNEEKQKMYMMEYCVCGMQEML  
 DSVPEKRFPPVCQAHGYFRQLIDGLEYLHSQGIHVHKDIKPGNLLLTTNGTLKISDLGVAEALHPFAVDDTC  
 RTSQGSFAFPPEIANGLDTFSGFKVDIWSAGVTLNYINTTGLYPFEGDNIYKLFENIGRGDFTIPDCGP  
 PLSDLLRGMLEYEPAKRF SIRQIRQHSWFRKKHPLAEALVPIPPSPDTKDRWRSMTVVPYLEDLHGRAEE  
 EEEEDLFDIEDGIIYTQDFTVPGVEEAAEAGLSEDACDTMWSQAGLPGEEPEEGFGLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

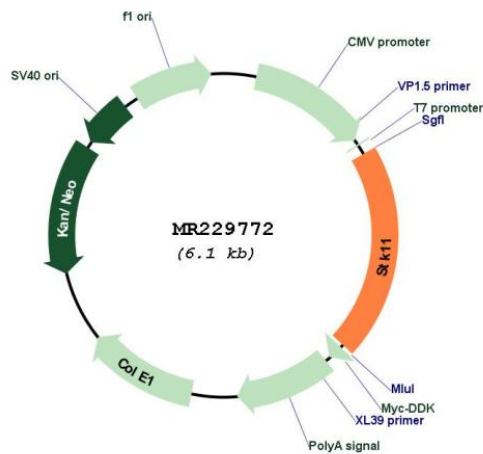
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001301853

<b>ORF Size:</b>	1236 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001301853.2</a>
<b>RefSeq Size:</b>	2054 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	20869
<b>UniProt ID:</b>	<a href="#">Q9WTK7</a>
<b>Cytogenetics:</b>	10 C1
<b>MW:</b>	46.9 kDa
<b>Gene Summary:</b>	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]