

## Product datasheet for **MG209333**

### PIk1 (NM\_011121) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIk1 (NM_011121) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIk1
Synonyms:	P; PIk; STPK; STPK13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209333 representing NM\_011121  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATGCAGCGCCAAAGCTGGAAGCTGGCTCGAGCACCAGCCGACCTCGGAAAGTGGGGTCCGG  
 GAGATGCAGTTCCCGGTGCCAGTGGCCGCCCGCTGGCGAAAGAAATCCGGAGGTCCTAGTGGACCC  
 ACGCAGCCGCGCGCAGTATGTACGGGGCGCTTTCTGGGTAAAGGAGGCTTCGCCAAATGCTTCGAGATC  
 TCAGACGCAGACACAAAAGAGGTGTTTCGACGGCAAGATCGTGCCTAAGTCTTTGCTGCTCAAGCCCCACC  
 AGAAGGAGAAGATGTCTATGGAGATCTCAATTCACCGCAGCCTAGCACACCAACACGTCGTAGGCTTCCA  
 TGACTTTTTGAGGACAGCGACTTTGTATTTGTAGTTTTGGAGCTCTGTCGACGAGGTCCTCCTGGAG  
 CTGCACAAGAGGAGGAAGGCACTGACCGAGCCTGAGGCCCGCTACTACCTGCGACAGATAGTCTGGGCT  
 GCCAGTACCTGCACCGCAATCAGGTCATTCACAGGGACCTCAAGCTGGGCAACCTCTTCTGAACGAGGA  
 TCTGGAGGTGAAAATAGGGGATTTGGCTTGGCAACAAAGTGAATATGAAGGGGAACGAAAGAAGACC  
 TTGTGTGGCACTCCTAACTACATAGCTCCTGAGGTGCTGAGCAAGAAGGGACACAGTTTTGAGGTGGATG  
 TGTGGTCCATTGGGTGCATCATGTATACCTTGCTAGTGGGCAAGCCTCCCTTTGAGACCTCGTGCCTAAA  
 AGAGACCTACCTCCGGATCAAGAAAAATGAATACAGTATCCCAAGCACATCAACCCAGTGGCCGCCTCC  
 CTCATCCAGAAGATGCTTCAGACAGACCCCACTGCCCGCCCAACATTACAGAGTTGCTCAATGACGAGT  
 TCTTCACTTCTGGCTACATCCCCGCCGTCTCCCTATTACCTGCCTCACCATCCCACCAAGGTTTTCAAT  
 CGCTCCCAGCAGCCTGGACCCAGCAGCAGGAAACCTCTCAAAGTCTCAATAAAGGTGTGGAGAACCC  
 CTGCCTGACCGTCCCCGGGAGAAAGAGGAACCGGTGGTCCGGGAGACAAATGAGGCCATTGAGTGCCACC  
 TTAGTGACTTGCTACAGCAGCTGACCAAGTGTCAACGCCTCAAGCCCTCGGAGCGCGGGCTGGTCCGCA  
 AGAGGAGGCTGAGGATCCTGCCTGCATCCCATCTTCTGGGTGAGCAAGTGGGTGGACTATTCGGACAAG  
 TATGGCCTTGGGTATCAGCTGTGTGACAACAGTGTGGGGTGGCTTTTAAAGTCAACACGCCTGATTC  
 TCTACAATGACGGGGACAGCCTGCAGTACATAGAGCGTATGGCAGGAGTCTATCTCACTGTGAGCTC  
 CCATCCCAATTCCTTGTGAAGAAGTCACTCTCCTCAACTATTTCCGCAATTACATGAGTGAGCACCTG  
 CTGAAGGCAGGGGCAACATCACACCCCGGAAGGCGACGAGCTGGCCCGGCTGCCCTACCTACGAAAGT  
 GGTTCGACACGCAGCGCCATCATCTGCACCTCAGCAACGGCACCGTGCAGATTAACCTCTTCCAGGA  
 CCACACAAACTTATCCTGTGCCCTGATGGCAGCGGTGACCTACATCAACGAGAAGAGGGACTCCAA  
 ACGTACCGCTGAGCCTCCTGGAGGAGTATGGCTGCTGCAAGGAGCTGGCCAGCCGCTCCGCTACGCC  
 GCACCATGGTAGACAAGCTGCTGAGCTCGCGCTCCGCCAGCAACCGCCTCAAGGCCTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209333 representing NM\_011121  
 Red=Cloning site Green=Tags(s)

MNAAAKAGKLARAPADLKGKGVPGDAVPGAPVAAPLAKEIPEVLVDPSSRRQYVVRGFLGKGGFAKCFEI  
 SDADTKEVFAGKIVPKSLLLKPHQKEKMSMEISIHRSLAHQHVVGFHDFEFDSDFVVFVLELCRRRSLLE  
 LHKRRKALTEPEARYLRLQIVLGCQYLHRNQVIHRDLKLNLFNEDLEVKIGDFGLATKVEYEGERKKT  
 LCGTPNYIAPEVLSKKGHSFEVDVWSIGCIMYLLVGKPPFETSCLKETYLRIRKNEYSIPKHINPVAAS  
 LIQKMLQDPTARPTIHELLNDEFFTSYIPARLPITCLTIPPRFSIAPSSLDPSSRKPLKVLNKGVENP  
 LPDRPREKEEPVVRETNEAIECHLSDLLQQLTSVNASKPSEGLVRQEEAEDPACIPIFWVSKWVDYSDK  
 YGLGYQLCDNSVGLFNDSTRLLIYNDGDSLQYIERDGTESYLVSSHPNSLMKKITLLNYFRNYMSEHL  
 LKAGANITPREGDELARLPYLRTWFRTRSAIILHLSNGTVQINFQDHTKLIILCPLMAAVTYINEKRDFQ  
 TYRSLLEEYGCCKELASRLRYARTMVDKLLSSRSASNRLKAS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

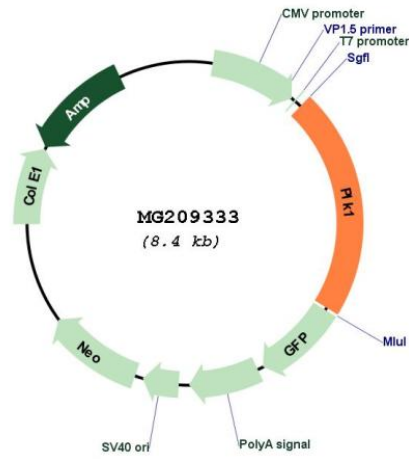
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_011121  
 ORF Size: 1809 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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_011121.4</a>
<b>RefSeq Size:</b>	2203 bp
<b>RefSeq ORF:</b>	1812 bp
<b>Locus ID:</b>	18817
<b>UniProt ID:</b>	<a href="#">Q07832</a>
<b>Cytogenetics:</b>	7 65.52 cM
<b>Gene Summary:</b>	<p>The Ser/Thr protein kinase encoded by this gene belongs to the CDC5/Polo subfamily. It is highly expressed during mitosis and may play a role in DNA replication during S phase. This gene is expressed in all embryonic tissues, but restricted to thymus and ovaries in adult tissues. Homozygous knockout mice were embryonic lethal, suggesting that this gene is important for early embryonic development. This gene is thought to be a potential oncogene because it is overexpressed in a variety of tumors and tumor cell lines. Depletion of this protein in cancer cells has been shown to inhibit cell proliferation and suppress oncogenic transformation; hence, it is a target for cancer therapy. [provided by RefSeq, Sep 2015]</p>