

## Product datasheet for RN210687

### Pten (NM\_031606) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pten (NM_031606) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pten
Synonyms:	Mmac; MMAC1; TEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN210687 representing NM_031606 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGCCATCATCAAAGAGATCGTTAGCAGAAACAAAAGGAGATATCAAGAGGATGGATTCGACTTAG  
ACTTGACCTATATTTATCCAAATATTATTGCTATGGGATTTCTGCAGAAAGACTTGAAGGTGTACAG  
GAACAATATTGATGATGTAGTAAGGTTTTGGATTCAAAGCATAAAAACCATTACAAGATATACAATCTA  
TGTGCTGAGAGACATTATGACACCGCCAAATTTAACTGCAGAGTTGCACAGTATCCTTTTGAAGACCATA  
ACCCACCACAGCTAGAATTATCAAACCCTTTTGTGAAGATCTTGACCAATGGCTAAGTGAAGACGACAA  
TCATGTTGCAGCAATTCCTGTAAGCTGGGAAAGGACGGACTGGTGTAAATGATTTGTGCATATTTATTG  
CATCGGGCAAGTTTTTAAAGGCACAAGAGGCCCTGGATTTTTATGGGAAGTAAGGACCAGAGATAAAA  
AGGGAGTAACTATTTCCAGTCAGAGGCGCTATGTATATTATTAGCTACCTGTTAAAGAATCACCTGGA  
TTACAGACCAGTGGCACTGTTGTTTACAAGATGATGTTTGAAGTAACTTCCAATGTTTCAGTGGCGGAAC  
TGCAATCCCAGTTTGTGGTCTGCCAGCTAAAGGTGAAGATCTACTCTCCAACCTCAGGACCCACGCGGC  
GGGAGGACAAGCTCATGTACTTTGAGTTCCTCAGCCATTGCCTGTGTGGTGACATCAAAGTAGAGTT  
CTTCCACAAAACAGAACAAGATGCTCAAAAAGGACAAAATGTTTCACTTTTGGGTAATACGTTCTTCATA  
CCAGGACCAGAGGAAACCTCAGAAAAGTGGAAAATGGAAGTCTTGTGATCAGGAAATCGATAGCATT  
GTAGTATAGAGCGTGCCGATAATGACAAGGAGTATCTTGTGCTCACCTGACAAAAATGATCTTGACAA  
AGCAAAACAAAGACAAGGCCAACCGATACTTCTCTCCAAATTTTAAAGGTGAAGTTATACTTCAAAAAACA  
GTAGAGGAGCCATCAAATCCAGAGGCTAGCAGTTCAACTTCTGTGACTCCAGACGTTAGTGACAATGAAC  
CTGATCATTATAGATATTCTGACACCCTGACTCTGATCCAGAGAATGAACCTTTTGTGAAGATCAGCA  
TTCACAAATTACAAAAGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Chromatograms:</b>	<a href="https://cdn.origene.com/chromatograms/ja3203_g04.zip">https://cdn.origene.com/chromatograms/ja3203_g04.zip</a>
<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_031606
<b>Insert Size:</b>	1212 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>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).</p>
<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_031606.1</a> , <a href="#">NP_113794.1</a>
<b>RefSeq Size:</b>	1212 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	50557
<b>Cytogenetics:</b>	1q52
<b>Gene Summary:</b>	may be involved in regulation of phosphoinositide 3-kinase and Akt kinase mediated antiapoptotic pathways [RGD, Feb 2006]