

Product datasheet for RR210687

Pten (NM_031606) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pten (NM_031606) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pten
Synonyms:	Mmac; MMAC1; TEP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210687 representing NM_031606 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGCCATCATCAAAGAGATCGTTAGCAGAAACAAAAGGAGATATCAAGAGGATGGATTCGACTTAG
ACTTGACCTATATTTATCCAAATATTATTGCTATGGGATTTCTGCAGAAAGACTTGAAGGTGTACAC
GAACAATATTGATGATGTAGTAAGGTTTTGGATTCAAAGCATAAAAACCATTACAAGATATACAATCTA
TGTGCTGAGAGACATTATGACACCGCAAATTTAACTGCAGAGTTGCACAGTATCCTTTTGAAGACCATA
ACCCACCACAGCTAGAATTATCAAACCTTTTGTGAAGATCTTGACCAATGGCTAAGTGAAGACGACAA
TCATGTTGCAGCAATTCCTGTAAGCTGGGAAAGGACGGACTGGTGAATGATTGTGCATATTTATTG
CATCGGGCAAGTTTTAAAGGCACAAGAGGCCCTGGATTTTTATGGGGAAGTAAGGACCAGAGATAAAA
AGGGAGTAACTATTCAGTCAGAGGCGCTATGTATATTATTAGCTACCTGTTAAAGAATCACCTGGA
TTACAGACCAGTGGCACTGTTGTTTACAAGATGATGTTTGAAGTAACTTCCAATGTTCAAGTGGCGGA
TGCAATCCCAGTTTGTGGTCTGCCAGCTAAAGGTGAAGATCTACTCTCAACTCAGGACCCACGCGGC
GGGAGGACAAGCTCATGTACTTTGAGTTCCCTCAGCCATTGCCTGTGTGGTGACATCAAAGTAGAGTT
CTTCCACAAACAGAACAAGATGCTCAAAAAGGACAAAATGTTTCACTTTTGGGTAATACGTTCTTCATA
CCAGGACCAGAGGAAACCTCAGAAAAAGTGGAAAATGGAAGTCTTTGTGATCAGGAAATCGATAGCATT
GTAGTATAGAGCGTGGGATAATGACAAGGAGTATCTTGTGCTCACCTGACAAAAATGATCTTGACAA
AGCAAAACAAGACAAGGCCAACCGATACTTCTCTCAAATTTTAAAGTGAAGTTAATCTTCAAAAAACA
GTAGAGGAGCCATCAAATCCAGAGGCTAGCAGTTCAACTTCTGTGACTCCAGACGTTAGTGACAATGAAC
CTGATCATTATAGATATCTGACACCCTGACTCTGATCCAGAGAATGAACCTTTTGTGATGAAGATCAGCA
TTCACAAATTACAAAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210687 representing NM_031606
 Red=Cloning site Green=Tags(s)

MTAIIKEIVSRNKRRYQEDGFDLDTYIYPNIIAMGFPAERLEGVYRNNIDDVVRFLDKHKHNYKIYNL
 CAERHYDTAKFNCRVAQYPFEDHNPPQLELIKPFCELDQWLSEDDNHVAAIHCKAGKGRGTGMICAYLL
 HRGKFLKAQEALDFYGEVTRDKKGVTTIPSSQRRYVYYSYLLKNHLDYRVPVALLFHKMMFETIPMFSGGT
 CNPQFVVCQLKVKIYSSNSGPTRRREDKLMYFEFPQPLVCGDIKVEFFHKQNKMLKKDKMFHFVWNTFFI
 PGPEETSEKVENGLCDQEIDSI CSIERADNDKEYLVLTLTKNLDKANKDKANRYFSPNFKVKLYFTKT
 VEPSNPEASSSTSVTPDVSDNEPDHYRSDTTSDPENEPFDEDQHSQITKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

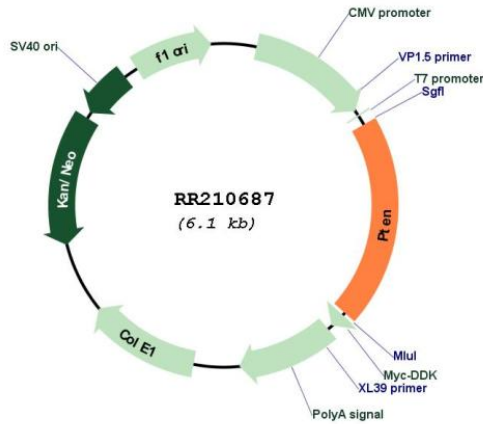
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_031606

ORF Size:	1209 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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_031606.1 , NP_113794.1
RefSeq Size:	1212 bp
RefSeq ORF:	1212 bp
Locus ID:	50557
Cytogenetics:	1q52
MW:	47.1 kDa
Gene Summary:	may be involved in regulation of phosphoinositide 3-kinase and Akt kinase mediated antiapoptotic pathways [RGD, Feb 2006]