

Product datasheet for **MC219817**

Papss2 (NM_011864) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papss2 (NM_011864) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Papss2
Synonyms:	1810018P12Rik; AI159688; Atpsk2; AtpsU2; bm; Sk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219817 representing NM_011864
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCGTCAAATTTCAAATGAACCATAAAAGAGACCAGCAAAAATCCACCAATGTGGTCTACCAGGCC
ATCATGTGAGCAGGAACAAGAGAGGACAAGTGGTTGGAACCAGGGGAGGATCCGAGGATGTACCGTGTG
GCTAACAGGTCTCTCTGGTGCTGGGAAAACAACCATAGCTTTGCTTTGGAAGAGTACCTTGTATCTCAC
GCCATCCCATGTTACTCTCTGGATGGGGACAATGTCGTCATGGCCTTAATAAGAACCTGGGATTCTCTG
CGGGGACCGAGAAGAGAATATCCGCCGATCGCGGAGGTGGCCAGGCTCTTTGCCGACGCCGCCCTGGT
TTGCATCACCAGCTTTATCTCTCTTTTCAAAGGATCGTGAGAATGCCGAAAAATCCACGAATCAGCA
GGACTCCCCTTTTGTAGATCTTTGATGCGCCTTTAAATATCTGTGAAAGCCGAGACGTAAGGAC
TCTACAAACGAGCCGAGCAGGAGAGATTAAGGGTTTACAGGCATCGATTCTGACTATGAGAACTGA
AACTCCAGAGTGTGTGCTGAAGACCAACCTGTCTTCAGTAAGCGACTGTGTGCAACAGGTGGTGAACCT
TTGAGGAGCAGAACATTGTACCCACACCACCATCAAAGGCATCCACGAACTCTTTGTGCCAGAAAACA
AAGTCGATCAAATCCGAGCTGAGGCAGAGACTCTCCCATCACTACCAATTACCAAGCTGGATCTGCAGTG
GGTGCAGATTCTGAGTGAAGGCTGGGCCACTCCCCTCAAAGGCTTTATGCGGGAGAAGGAGTACTTGCAA
ACTCTACACTTCGACACTCTACTGGACGGCGTGGTTCCCCGTGATGGAGTCATCAACATGAGTATCCCA
TTGTATTGCCCGTTTCTGCGGATGACAAGGCACGGCTCGAAGGGTGCAGCAAATTTGCCCTGATGTACGA
AGGTCGGAGGGTCTGCTATTACAGGACCCTGAATTCTATGAGCATAGGAAAGAGGAGCGCTGTTCTCGT
GTGTGGGAAACAGCCACTGCAAAGCACCCCATATCAAATGGTATGGAAGTGGGACTGGCTTGTG
GTGGAGACCTACAGGTGCTAGAGAGAATAAGGTGGGACGATGGGCTGGACCAATACCGCCTACCGCCTCT
GGAGCTCAAACAGAAGTGTAAAGACATGAATGCTGATGCCGTGTTTGCATTCCAGTTGCGCAATCCTGTC
CACAATGGTCATGCCCTCTGATGCAGGACACCCGCCGAGGCTCCTGGAGAGGGTTACAAGCACCCAG
TCCTCCTGCTCCACCCTTTGGGGGCTGGACCAAGGACGATGACGTACCTCTGGAATGGAGGATGAAACA
GCATGCAGCTGTACTGGAGGAAAGGGTCTGGATCCCAAGTCAACTATTGTTGCCATCTTCCATCTCTCT
ATGTTATATGCTGGTCCCACAGAGGTCCAGTGGCATTGCAGATGCCGGATGATTGCAGGAGCCAATTTCT
ACATTGTGGGTAGGGATCCCGCAGGAATGCCCATCCTGAGACAAAGAAAGACCTATATGAACCCACCCA
CGGGGCAAGGTCTTGATATGGCCCTGGCCTTACCTCTGTGGAATAATTCCGTTCCGAGTGGCTGCC
TACAATAAAATAAAAAGCCATGGACTTTTATGATCCAGCAAGGCACGAGGAGTTTACTTTCATCTCAG
GAACTCGCATGAGGAAGCTCGCCCGGAAGGAGAAGATCCCCAGATGGCTTCATGGCCCCGAAAGCGTG
GAAAGTGTGACAGATTACTACAGGTCTCTGGAGAAGACCAAC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011864

Insert Size: 1866 bp

OTI Disclaimer: 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).

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:

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_011864.3](#), [NP_035994.2](#)

RefSeq Size: 3635 bp

RefSeq ORF: 1866 bp

Locus ID: 23972

UniProt ID: [O88428](#)

Cytogenetics: 19 27.46 cM

Gene Summary: Bifunctional enzyme with both ATP sulfurylase and APS kinase activity, which mediates two steps in the sulfate activation pathway. The first step is the transfer of a sulfate group to ATP to yield adenosine 5'-phosphosulfate (APS), and the second step is the transfer of a phosphate group from ATP to APS yielding 3'-phosphoadenylylsulfate (PAPS: activated sulfate donor used by sulfotransferase). In mammals, PAPS is the sole source of sulfate; APS appears to be only an intermediate in the sulfate-activation pathway. May have an important role in skeletogenesis during postnatal growth.[UniProtKB/Swiss-Prot Function]