

## Product datasheet for **MC228476**

### Papss2 (NM\_001201470) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Papss2 (NM_001201470) 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:** >MC228476 representing NM\_001201470  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGGGTCAAGAAGCAGAAGACGGACCAGCAAAAATCCACCAATGTGGTCTACCAGGCCATCATG  
 TGAGCAGGAACAAGAGAGGACAAGTGGTTGGAACCAAGGGAGGATTCCGAGGATGTACCGTGTGGCTAAC  
 AGGTCTCTCTGGTCTGGGAAAACAACCATAAGCTTTGCTTTGGAAGAGTACCTGTATCTCACGCCATC  
 CCATGTTACTCTCTGGATGGGACAATGTCGTCATGGCCTTAATAAGAACCTGGGATTCTCTCGGGGG  
 ACCGAGAAGAGAATATCCGCCGGATCGCGGAGGTGGCCAGGCTCTTTGCCGACGCCGGCCTGGTTTGCAT  
 CACCAGCTTTATCTCCTTTTGCAAAGGATCGTGAGAATGCCCGAAAAATCCACGAATCAGCAGGACTC  
 CCGTTCTTTGAGATCTTTGTAGATGCGCCTTTAAATATCTGTGAAAGCCGAGACGTAAGGACTCTACA  
 AACGAGCCCGAGCAGGAGAGATTAAGGGTTTACAGGCATCGATTCTGACTATGAGAAACCTGAACTCC  
 AGAGTGTGTGCTGAAGACCAACCTGTCTTCAGTAAGCGACTGTGTGCAACAGGTGGTGGAACTTTTGCAG  
 GAGCAGAACATTGTACCCACACCACCATCAAAGGCATCCACGAATCCTTTGTGCCAGAAAACAAAGTCG  
 ATCAAATCCGAGCTGAGGCAGAGACTCTCCCATCACTACCAATTACCAAGCTGGATCTGCAGTGGGTGCA  
 GATTCTGAGTGAAGGCTGGGCCACTCCCCTCAAAGGCTTTATGCGGGAGAAGGAGTACTTGCAAACCTCA  
 CACTTCGACACTCTACTGGACGATGGAGTCATCAACATGAGTATCCCATTTGATTGCCCGTTTCTGCGG  
 ATGACAAGGCACGGCTCGAAGGGTGCAGCAAAATTTGCCTTGATGTACGAAGTCCGAGGGTCCGCTCTATT  
 ACAGGACCCTGAATCTATGAGCATAGGAAAGAGGAGCGCTGTTCTCGTGTGGGGAACAGCCACTGCA  
 AAGCACCCCATATCAAATGGTGTGAAAGTGGGACTGGCTTGTGGTGGAGACCTACAGGTGCTAG  
 AGAGAATAAGGTGGGACGATGGGCTGGACCAATACCGCCTTACGCCTCTGGAGCTCAAACAGAAGTGTA  
 AGACATGAATGCTGATGCCGTGTTTGCATTCCAGTTGCGCAATCCTGTCCACAATGGTCAATGCCCTCTG  
 ATGCAGGACACCCGCGCAGGCTCCTGGAGAGGGTTACAAGCACCCAGTCCCTCTGCTCCACCCTCTTG  
 GGGGCTGGACCAAGGACGATGACGTACCTCTGGAATGGAGGATGAAACAGCATGCAGCTGTACTGGAGGA  
 AAGGGTCTGGATCCCAAGTCAACTATTGTTGCCATCTTCCATCTCTATGTTATATGCTGGTCCACACA  
 GAGGTCCAGTGGCATTGCAGATGCCGGATGATTGCAGGAGCCAATTTCTACATTGTGGGTAGGGATCCCG  
 CAGGAATGCCCATCCTGAGACAAGAAAGACCTATATGAACCCACCCACGGGGCAAGGTCTTGAGTAT  
 GGCCCTGGCCTTACCTCTGTGAAATAATTCCGTTCCGAGTGGTGCCTACAATAAAATAAAAAGGCC  
 ATGGACTTTTATGATCCAGCAAGGCACGAGGATTTGACTTCATCTCAGGAACTCGCATGAGGAAGCTCG  
 CCCGGGAAGGAGAAGATCCCCAGATGGCTTCATGGCCCCGAAAGCGTGGAAAGTGTGACAGATTACTA  
 CAGGTCTCTGAGAAGACCAACTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001201470
- Insert Size:** 1845 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001201470.1](#), [NP\\_001188399.1](#)

**RefSeq Size:** 3599 bp

**RefSeq ORF:** 1845 bp

**Locus ID:** 23972

**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]