

## Product datasheet for **MC219816**

### **Papss1 (NM\_011863) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Papss1 (NM_011863) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Papss1
Synonyms:	AI325286; Asapk; SK1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219816 representing NM\_011863  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGATTCTGGGAGTCTGTGCAAGAAAGTCAAGCTGAGCAATAACCGCAGAACTGGGGATGCAGA  
 GAGCAACCAACGTCACCTATCAAGCCCACCATGTGACGAGGAATAAGAGAGGGCAGGTGGTGGGACCAG  
 AGGTGGCTTCCGTGGTTGCACAGTTTGGCTGACAGGATTGTCGGAGCAGGGAAGACGACCGTGAGCATG  
 GCTCTGGAGGAGTACCTGGTGTGCCACGGCATTCCGTGCTACACTTTGGATGGTGACAACATCCGCCAAG  
 GACTCAATAAGAACCCTCGGCTTCAGTCTGAGGACAGAGAAGAGAACGTTCCGCCATAGCTGAGGTGGC  
 GAAGCTGTTTGCAGATGCTGGCTTAGTGTGTATCACCAGCTTTATATCGCCTTACACACAGGATCGCAAC  
 AACGCAAGGCAGATTCATGAGGGTGAAGCTTGCCTTCTTTGAAGTTTTTGTGATGCTCCTCTGCATG  
 TCTGTGACGAGGGATGTCAAAGGCCTCTACAAGAAGGCGGGCAGGGGAGATAAAGGCTTCACTGG  
 CATCGATTCTGAGTATGAGAAACCCGAGCCCCGGAGCTGGTGTGAAAACGGATTCTGTGACGTCAAC  
 GACTGCGTCCAGCAGGTTGTGGAGCTTCTCAGGAACGGGACATCGTCCCTGTGGATGCTTCTATGAAG  
 TGAAAGAGCTATATGTGCCAGAGAATAAACTTCACTTGGCCAAAACCTGATGCAGAAGCCTTACCAGCCCT  
 GAAAATCAATAAAGTGGATATGCAGTGGGTGCAGGTTTTGGCAGAAGGTTGGGCGACTCCTCTGAACGGC  
 TTCATGAGAGAGAGGGAGTACTTGCAGTGCCTCCATTTGATTGTCTTCTGGATGGAGGCGTCATCAACT  
 TATCGGTGCCTATAGTTCTGACAGCTACGCACGAGGATAAGGAGAGGCTGGACGGCTGCACCGGTTTCGC  
 TCTGGTGTATGAGGGCCCGCGTGGCCATCCTTCGGAATCCTGAATTTTTGAGCACCGGAAAGAGGAG  
 CGGTGTGCCAGACAGTGGGAACAACATGCAAGAACCACCCTACATCAAGATGGTCTGGAACAAGGGG  
 ATTGGCTGATTGGAGGAGATCTTCAAGTCTGGACCGGATTTACTGGAATGATGGTCTTGATCAGTACCG  
 CCTTACCCCGACGGAGCTCAAGCAGAAGTTTAAAGATATGAACGCTGATGCTGTCTTTGCATTTGAGTTG  
 CGCAACCCAGTGCACAACGGGCACGCTCTGTTAATGCAGGATACCCACAAGCAGCTTCTGGAGAGGGCT  
 ACCGGCGCCTGTCTGTCTCCTCATCCTCTTGGTGGCTGGACGAAGGATGACGATGTCCCTCTGATGTG  
 GCGTATGAAGCAGCAGCTGCAGTGTGGAGGAGGCGATCCTGGATCCTGAAACGACAGTGGTGGCCATT  
 TTCCCGTCTCCTATGATGTATGCTGGGCCAACCGAGGTCCAGTGGCACTGCAGGGCGGGATGGTGGCCG  
 GAGCCAATTTTTATATTGTTGGACGAGACCCTGCTGGCATGCCTCATCCGGAGACAGGGAAGGACCTCTA  
 TGAGCCAACACATGGTGCCAAAGTGTGACGATGGCCCCAGGCTGATTACCTTGAAATCGTTCCTTC  
 CGAGTTGCAGCTTACAACAAGAAAAAGAAGCGGATGGACTACTATGACTCTGAGCACCACGAAGACTTCG  
 AGTTTATTTAGGAACGAGGATGCGCAAGCTGGCACGCGAAGGCCAGAAACCTCCAGAGGGCTTCATGGC  
 CCCAAGGCTGGACTGTGCTGGTAGAGTACTACAAGTCTTAGAGAAAGCCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_011863

**Insert Size:** 1875 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\\_011863.2](#), [NP\\_035993.1](#)

**RefSeq Size:** 2617 bp

**RefSeq ORF:** 1875 bp

**Locus ID:** 23971

**UniProt ID:** [Q60967](#)

**Cytogenetics:** 3 61.05 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 (PubMed:7493984). Required for normal biosynthesis of sulfated L-selectin ligands in endothelial cells (By similarity).  
[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) encodes the longest isoform (a).