

Product datasheet for **MC228438**

Papss1 (NM_001289477) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papss1 (NM_001289477) 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: >MC228438 representing NM_001289477
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAGAGCAACCAACGTACCTATCAAGCCCACCATGTCAGCAGGAATAAGAGAGGGCAGGTGGTGG
 GGACCAGAGGTGGCTTCCGTGGTTGCACAGTTTGGCTGACAGGATTGTCCGGAGCAGGGAAGACGACCGT
 GAGCATGGCTCTGGAGGAGTACCTGGTGTGCCACGGCATTCCGTGCTACACTTTGGATGGTGACAACATC
 CGCCAAGGACTCAATAAGAACCTCGGCTTCAGTCTGAGGACAGAGAAGAGAACGTTCCGCCATAGCTG
 AGGTGGCGAAGCTGTTTGCAGATGCTGGCTTAGTGTATCACCAGCTTTATATCGCCTTACACACAGGA
 TCGCAACAACGCAAGGCAGATTCATGAGGGTGAAGCTTGCCCTCTTTGAAGTTTTTGTGATGCTCCT
 CTGCATGTCTGTGAGCAGAGGGATGTCAAAGCCCTCTACAAGAAGGCGCGGCAGGGGAGATAAAAGGCT
 TCACTGGCATCGATTCTGAGTATGAGAAACCCGAGGCCCGGAGCTGGTGTGAAAACGGATTCTGTGA
 CGTCAACGACTGGTCCAGCAGGTTGTGGAGCTTCTTCAGGAACGGGACATCGTCCCTGTGGATGCTTCC
 TATGAAGTGAAAGAGCTATATGTCCAGAGAATAAACTTCACTTGCCAAAACCTGATGCAGAAGCCCTAC
 CAGCCCTGAAAATCAATAAAGTGGATATGCAGTGGGTGCAGGTTTTGGCAGAAGTTGGGCGACTCCTCT
 GAACGGCTTATGAGAGAGAGGGAGTACTTGCAGTGCCTCCATTTTCGATTGTCTTCTGGATGGAGGCGTC
 ATCAACTTATCGGTGCCTATAGTTCTGACAGCTACGCACGAGGATAAGGAGAGGCTGGACGGCTGCACCG
 CGTTTCGCTCTGGTGTATGAGGGCCCGCGTGGCCATCCTTCGGAATCCTGAATTTTTGAGCACCGGAA
 AGAGGAGCGGTGTGCCAGACAGTGGGGAACAACATGCAAGAACCACCCCTACATCAAGATGGTTCTGGAA
 CAAGGGGATTGGCTGATTGGAGGAGATCTCAAGTCTGGACCGGATTTACTGGAATGATGGTCTTGATC
 AGTACCGCCTTACCCCGACGGAGCTCAAGCAGAAGTTAAAGATATGAACGCTGATGCTGTCTTTGCATT
 TCAGTTGCGCAACCCAGTGCACAACGGCACGCTCTGTTAATGCAGGATACCCACAAGCAGCTTCTGGAG
 AGGGGCTACCGGCGCCCTGTCCTGCTCCTCATCTCTTGGTGGCTGGACGAAGGATGACGATGTCCCTC
 TGATGTGGCGTATGAAGCAGCACGCTGCAGTGTGGAGGAGGCATCCTGGATCCTGAAACGACAGTGGT
 GGCCATTTTCCCGTCTCCTATGATGATGCTGGGCCAACCGAGGTCCAGTGGCACTGCAGGGCGCGGATG
 GTGGCCGAGCCAATTTTATATTGTTGGACGAGACCCTGCTGGCATGCCTATCCGGAGACAGGGAAGG
 ACCTCTATGAGCCAACACATGGTGCCAAAGTGTGACGATGGCCCCAGGCCTGATTACCTTGAAATCGT
 TCCCTTCCGAGTTCAGCTTACAACAAGAAAAAGAAGCGGATGGACTACTATGACTCTGAGCACCACGAA
 GACTTCGAGTTTATTTTCAGGAACGAGGATGCGCAAGCTGGCACGGAAGGCCAGAAACCTCCAGAGGGCT
 TCATGGCCCCCAAGGCCTGGACTGTGCTGGTAGAGTACTACAAGTCTTAGAGAAAGC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001289477
- Insert Size:** 1812 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_001289477.1](#), [NP_001276406.1](#)

RefSeq Size: 2607 bp

RefSeq ORF: 1812 bp

Locus ID: 23971

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 (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 and 3 both encode the same isoform (b).