

Product datasheet for **MR217690**

Papss1 (NM_011863) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papss1 (NM_011863) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Papss1
Synonyms:	A1325286; Asapk; SK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217690 representing NM_011863
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGATTCTGGGAGTCTGTGCAAGAAAGTCAAGCTGAGCAATAACCGCAGAACTGGGGATGCAGA
 GAGCAACCAACGTCACCTATCAAGCCCACCATGTGACGAGGAATAAGAGAGGGCAGGTGGTGGGACCAG
 AGGTGGCTTCCGTGGTTGCACAGTTTGGCTGACAGGATTGTCGGAGCAGGGAAGACGACCGTGAGCATG
 GCTCTGGAGGAGTACCTGGTGTGCCACGGCATTCCGTGCTACACTTTGGATGGTGACAACATCCGCCAAG
 GACTCAATAAGAACCCTCGGCTTCAGTCTGAGGACAGAGAAGAGAACGTTCCGCCATAGCTGAGGTGGC
 GAAGCTGTTTGCAGATGCTGGCTTAGTGTGTATCACCAGCTTTATATCGCCTTACACACAGGATCGCAAC
 AACGCAAGGCAGATTCATGAGGGTGAAGCTTGCCTTCTTTGAAGTTTTTGTGATGCTCCTCTGCATG
 TCTGTGACGAGGGATGTCAAAGGCCTCTACAAGAAGGCGGGCAGGGGAGATAAAGGCTTCACTGG
 CATCGATTCTGAGTATGAGAAACCCGAGCCCGGAGCTGGTGTGAAAACGGATTCTGTGACGTCAAC
 GACTGCGTCCAGCAGGTTGTGGAGCTTCTCAGGAACGGGACATCGTCCCTGTGGATGCTTCTATGAAG
 TGAAAGAGCTATATGTGCCAGAGAATAAACTTCACTTGGCCAAAACCTGATGCAGAAGCCTTACCAGCCCT
 GAAAATCAATAAAGTGGATATGCAGTGGGTGCAGGTTTTGGCAGAAGGTTGGGCGACTCCTCTGAACGGC
 TTCATGAGAGAGAGGGAGTACTTGCAGTGCCTCCATTTGATTGTCTTGGATGGAGGCGTCATCAACT
 TATCGGTGCCTATAGTTCTGACAGCTACGCACGAGGATAAGGAGAGGCTGGACGGCTGCACCGGTTTCGC
 TCTGGTGTATGAGGGCCCGCGTGGCCATCCTTCGGAATCCTGAATTTTTGAGCACGGAAAGAGGAG
 CGGTGTGCCAGACAGTGGGAACAACATGCAAGAACCACCCTACATCAAGATGGTCTGGAACAAGGGG
 ATTGGCTGATTGGAGGAGATCTCAAGTCTGGACCGGATTTACTGGAATGATGGTCTTGATCAGTACCG
 CCTTACCCGACGAGCTCAAGCAGAAGTTAAAGATATGAACGCTGATGCTGTCTTTGCATTTCACTTGG
 CGCAACCCAGTGCACAACGGGCACGCTCTGTTAATGCAGGATACCCACAAGCAGCTTCTGGAGAGGGCT
 ACCGGCGCCTGTCTGTCTCTCCATCCTCTTGGTGGCTGGACGAAGGATGACGATGTCCCTCTGATGTG
 GCGTATGAAGCAGCAGCTGCAGTGTGGAGGAGGGCATCCTGGATCCTGAAACGACAGTGGTGGCCATT
 TTCCCGTCTCTATGATGTATGCTGGGCCAACCGAGGTCCAGTGGCACTGCAGGGCAGGATGGTGGCCG
 GAGCCAATTTTTATATTGTTGGACGAGACCCTGCTGGCATGCCTCATCCGGAGACAGGGAAGGACCTCTA
 TGAGCCAACACATGGTGCCAAAGTGTGACGATGGCCCCAGGCTGATTACCTTGGAAATCGTCCCTTC
 CGAGTTGCAGCTTACAACAAGAAAAGAAGCGGATGGACTACTATGACTCTGAGCACACGAAGACTTCG
 AGTTTATTTCAAGAACGAGGATGCGCAAGCTGGCACGCAAGGCCAGAAACCTCCAGAGGGCTTCATGGC
 CCCAAGGCCTGGACTGTGCTGGTAGAGTACTACAAGTCTTAGAGAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217690 representing NM_011863
 Red=Cloning site Green=Tags(s)

MEIPGSLCKKVKLSNNAQNWGMQRATNVTYQAHVSRNKRQVVGTRGGFRGCTVWL TGLSGAGKTTVSM
 ALEEYL VCHGIPCYTL DGDNI RQGLNKNLGF SPEDREENVRRIAEVAKL FADAGLVCITSFISPYTQDRN
 NARQIHEGASLPFFFEVFDAPLHVCEQRDVKGL YKKARAGEIKGFTGIDSEYEKPEAPEL VLKTDSCDVN
 DCVQQVVELLQERDIPVDASYEVKEL YVPENKHLAKTDAEALPALKINKVDMQWVQVLAEGWATPLNG
 FMREREYLQCLHFDCLLDGGVINL SVPIVL TATHEDKERLDGCTAFALVYEGRRVAILRNPEFFEHRKEE
 RCARQWGTTCKNHPYIKMVL EQGDWLI GGDLQVLDRIYWN DGLDQYRLTPTTELKQKFKDMNADAVFAFQL
 RNPVHNGHALLMQDTHKQL LERGYRRPVLLLHPLGGWTKDDDVPLMWRMKQHAAVLEEGILDPETTVVAI
 FPSPMMYAGPTEVQWHCRARMVAGANFYIVGRDPAGMPHPETGKDL YEPTHGAKVLTMAPGLITLIEIVPF
 RVAAYNKKKRMDDYDSEHHEDFEFISGTRMRKLAREGQKPPPEGFMAPKAWTVLVEYYKSLEKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011863

ORF Size: 1872 bp

OTI Disclaimer: 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](#)

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:

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

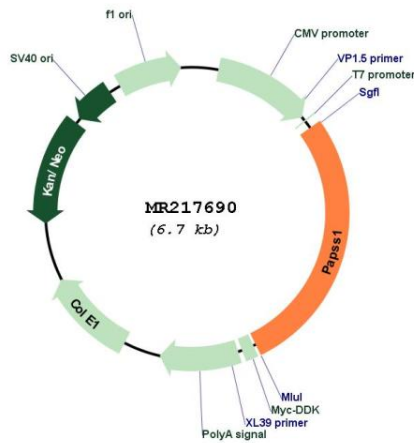
UniProt ID: [Q60967](#)

Cytogenetics: 3 61.05 cM

MW: 71.2 kDa

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]

Product images:



Circular map for MR217690