

Product datasheet for **MR209336**

Papss1 (BC066055) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Papss1 (BC066055) 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:

>MR209336 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAGAGCAACCAACGTACCTATCAAGCCCACCATGTCAGCAGGAATAAGAGAGGGCAGGTGGTGG
 GGACCAGAGGTGGCTTCGGTGGTTGCACAGTTTGGCTGACAGGATTGTCCGGAGCAGGGAAGACGACCGT
 GAGCATGGCTCTGGAGGAGTACCTGGTGTGCCACGGCATTCCGTGCTACACTTTGGATGGTGACAACATC
 CGCCAAGGACTCAATAAGAACCTCGGCTTCAGTCTGAGGACAGAGAAGAGAACGTTCCGCCATAGCTG
 AGGTGGCGAAGCTGTTTGCAGATGCTGGCTTAGTGTATCACCAGCTTTATATCGCCTTACACACAGGA
 TCGCAACAACGCAAGGCAGATTCATGAGGGTGAAGCTTGCCCTCTTTGAAGTTTTTGTGATGCTCCT
 CTGCATGTCTGTGAGCAGAGGGATGTCAAAGCCCTCTACAAGAAGGCGCGGGCAGGGGAGATAAAAGGCT
 TCACTGGCATCGATTCTGAGTATGAGAAACCCGAGGCCCGGAGCTGGTGTGAAAACGGATTCTGTGA
 CGTCAACGACTGGTCCAGCAGGTTGTGGAGCTTCTTCAGGAACGGGACATCGTCCCTGTGGATGCTTCC
 TATGAAGTGAAAGAGCTATATGTCCAGAGAATAAACTTCACTTGGCCAAAACCTGATGCAGAAGCCTTAC
 CAGCCCTGAAAATCAATAAAGTGGATATGCAGTGGGTGCAGGTTTTGGCAGAAGTTGGGCGACTCCTCT
 GAACGGCTTATGAGAGAGAGGGAGTACTTGCAGTGCCTCCATTTGATTGTCTTCTGGATGGAGGCGTC
 ATCAACTTATCGGTGCCTATAGTTCTGACAGCTACGCACGAGGATAAGGAGAGGCTGGACGGCTGCACCG
 CGTTTCGCTCTGGTGTATGAGGGCCGCGCGTGGCCATCCTTCGGAATCCTGAATTTTTGAGCACCGGAA
 AGAGGAGCGGTGTGCCAGACAGTGGGGAACAACATGCAAGAACCACCCCTACATCAAGATGGTCTTGAA
 CAAGGGGATTGGCTGATTGGAGGAGATCTCAAGTCTGGACCGGATTTACTGGAATGATGGTCTTGATC
 AGTACCGCTTACCCCGACGGAGCTCAAGCAGAAGTTTTAAGATATGAACGCTGATGCTCTTTGCATT
 TCAGTTGCGCAACCCAGTGCACAACGGGACGCTCTGTTAATGCAGGATACCCACAAGCAGCTTCTGGAG
 AGGGGCTACCGGCGCCCTGTCCTGCTCCTCATCTCTTGGTGGCTGGACGAAGGATGACGATGTCCCTC
 TGATGTGGCGTATGAAGCAGCACGCTGCAGTGTGGAGGAGGCATCCTGGATCCTGAAACGACAGTGGT
 GGCCATTTTCCCGTCTCCTATGATGATGCTGGGCCAACCGAGGTCCAGTGGCACTGCAGGGCGCGGATG
 GTGGCCGAGCCAATTTTATATTGTTGGACGAGACCCTGCTGGCATGCCTATCCGGAGACAGGGAAGG
 ACCTCTATGAGCCAACACATGGTGCCAAAGTGTGACGATGGCCCCAGGCCTGATTACCTTGAAATCGT
 TCCCTCCGAGTGCAGCTTACAACAAGAAAAAGAAGCGGATGGACTACTATGACTCTGAGCACCACGAA
 GACTTCGAGTTTATTTTCAGGAACGAGGATGCGCAAGCTGGCACGGAAGGCCAGAAACCTCCAGAGGGCT
 TCATGGCCCCCAAGGCCTGGACTGTGCTGGTAGAGTACTACAAGTCTTAGAGAAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209336 protein sequence
 Red=Cloning site Green=Tags(s)

MQRATNVTYQAHVSRNKRQVVGTRGGFRGCTVWL TGLSGAGKTTVSMAL E EYL VCHGIPCYTLDGDNI
 RQGLNKNLGFSPEDREENVRRIAEVAKLFADAGLVCITSFISPYTQDRNNARQIHEGASLPFFEFVVDAP
 LHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVKTDSCDVNDVQVVELLQERDIVPDAS
 YEVKELYVPENKLLAKTDAEALPALKINKVDMQWVQVLAEGWATPLNGFMREREYLQCLHFDCLLDGGV
 INLSVPIVLTATHEDKERLDGCTAFALVYEGRRVAILRNPEFFEHRKEERCARQWGTCKNHPIKMLE
 QGDWLIIGDLQVLDRIYWNDGLDQYRLTPTLQKQFKDMNADAVFAFQLRNPVHNGHALLMQDTHKQLLE
 RGYRRPVLLHPLGGWTKDDVPLMWRMKQHAAVLEEGILDPEVVVAIFPSPMMYAGPTEVQWHCRARM
 VAGANFYIVGRDPAGMPHPETGKDLYEPHGAKVLTMAPGLITLIVPFRVAAYNKKKKRMDYYDSEHHE
 DFEFISGTRMRKLAREGQKPEGFMAPKAWTVLVEYYKSLEKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC066055

ORF Size: 1809 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: [BC066055](#), [AAH66055](#)

RefSeq Size: 2673 bp

RefSeq ORF: 1811 bp

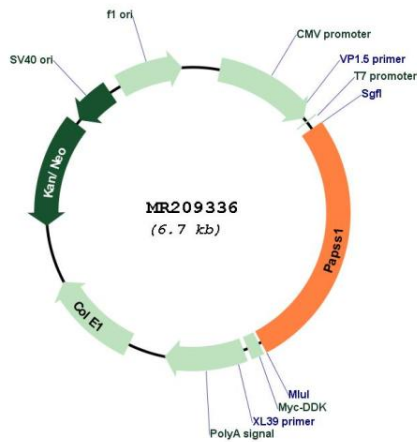
Locus ID: 23971

Cytogenetics: 3 61.05 cM

MW: 68.5 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 MR209336