

Product datasheet for **MG209336**

Papss1 (BC066055) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papss1 (BC066055) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Papss1
Synonyms:	A1325286; Asapk; SK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209336 representing BC066055
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGAGAGCAACCAACGTCACCTATCAAGCCCACCATGTCAGCAGGAATAAGAGAGGGCAGGTGGTGG
 GGACCAGAGGTGGCTTCCGTGGTTGCACAGTTTGGCTGACAGGATTGTCCGGAGCAGGGAAGACGACCGT
 GAGCATGGCTCTGGAGGAGTACCTGGTGTGCCACGGCATTCCGTGCTACACTTTGGATGGTGACAACATC
 CGCCAAGGACTCAATAAGAACCTCGGCTTCAGTCTGAGGACAGAGAAGAGAACGTTCCGCCATAGCTG
 AGGTGGCGAAGCTGTTTGCAGATGCTGGCTTAGTGTATCACCAGCTTTATATCGCCTTACACACAGGA
 TCGCAACAACGCAAGGCAGATTCATGAGGGTGAAGCTTGCCCTCTTTGAAGTTTTTGTGATGCTCCT
 CTGCATGTCTGTGAGCAGAGGGATGTCAAAGCCCTCTACAAGAAGGCGCGGCAGGGGAGATAAAAGGCT
 TCACTGGCATCGATTCTGAGTATGAGAAACCCGAGGCCCGGAGCTGGTGTGAAAACGGATTCTGTGA
 CGTCAACGACTGGTCCAGCAGGTTGTGGAGCTTCTTCAGGAACGGGACATCGTCCCTGTGGATGCTTCC
 TATGAAGTGAAAGAGCTATATGTCCAGAGAATAAACTTCACTTGCCAAAACCTGATGCAGAAGCCTTAC
 CAGCCCTGAAAATCAATAAAGTGGATATGCAGTGGGTGCAGGTTTTGGCAGAAGTTGGGCGACTCCTCT
 GAACGGCTTATGAGAGAGAGGGAGTACTTGCAGTGCCTCCATTTGATTGTCTTCTGGATGGAGGCGTC
 ATCAACTTATCGGTGCCTATAGTTCTGACAGCTACGCACGAGGATAAGGAGAGGCTGGACGGCTGCACCG
 CGTTTCGCTCTGGTGTATGAGGGCCCGCGGTGGCCATCCTTCGGAATCCTGAATTTTTGAGCACCGGAA
 AGAGGAGCGGTGTGCCAGACAGTGGGGAACAACATGCAAGAACCACCCCTACATCAAGATGGTCTGGAA
 CAAGGGGATTGGCTGATTGGAGGAGATCTCAAGTCTGGACCGGATTTACTGGAATGATGGTCTTGATC
 AACTCCGCTTACCCCGACGGAGCTCAAGCAGAAGTTTAAAGATATGAACGCTGATGCTCTTTGCATT
 TCAGTTGCGCAACCCAGTGCACAACGGGCACGCTCTGTTAATGCAGGATACCCACAAGCAGCTTCTGGAG
 AGGGGCTACCGGCGCCCTGTCCTGCTCCTCATCTCTTGGTGGCTGGACGAAGGATGACGATGTCCCTC
 TGATGTGGCGTATGAAGCAGCACGCTGCAGTGTGGAGGAGGCATCCTGGATCCTGAAACGACAGTGGT
 GGCCATTTTCCCGTCTCCTATGATGATGCTGGGCCAACCGAGGTCCAGTGGCACTGCAGGGCGCGGATG
 GTGGCCGAGCCAATTTTATATTGTTGGACGAGACCCTGCTGGCATGCCTATCCGGAGACAGGGAAGG
 ACCTCTATGAGCCAACACATGGTGCCAAAGTGTGACGATGGCCCCAGGCCTGATTACCTTGAAATCGT
 TCCCTCCGAGTTGCAGCTTACAACAAGAAAAAGAAGCGGATGGACTACTATGACTCTGAGCACCACGAA
 GACTTCGAGTTTATTTTCAGGAACGAGGATGCGCAAGCTGGCACGGAAGGCCAGAAACCTCCAGAGGGCT
 TCATGGCCCCCAAGGCCTGGACTGTGCTGGTAGAGTACTACAAGTCTTAGAGAAAAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209336 representing BC066055
 Red=Cloning site Green=Tags(s)

MQRATNVTYQAHHVS RNKRQVVGTRGGFRGCTVWL TGLSGAGKTTVSMAL E EYL VCHGIPCYTLDGDNI
 RQGLNKNLGFSPEDREENVRRIAEVAKLFADAGLVCITSFISPYTQDRNNARQIHEGASLPFFEFVVDAP
 LHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVLKTDSCDVNDCVQQVVELLQERDIVPDAS
 YEYKELYVPENKHLAKTDAEALPALKINKVDMQWVQVLAEGWATPLNGFMREREYLQCLHFDCLLDGGV
 INLSVPIVLTATHEDKERLDGCTAFALVYEGRRVAILRNPEFFEHRKEERCARQWGTTCKNHPYIKMVL
 QGDWLIIGDQLVLDRIYWNDGLDQYRLTPELTKQKFKDMNADAVFAFQLRNPVHNGHALLMQDTHKQLLE
 RGYRRPVLLLHPLGGWTKDDDVPLMWRMKQHAAVLEEGILDPETTVAIFPSPMMYAGPTEVQWHCRARM
 VAGANFYIVGRDPAGMPHPETGKDLYEPTHGAKVLTMAPGLITLIVPFRVAAYNKKKKRMDYYDSEHHE
 DFEFISGTRMRKLAREGQKPPPEGFMAPKAWTVLVEYYKSLEKA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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
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]