

Product datasheet for **MG217690**

Papss1 (NM_011863) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papss1 (NM_011863) 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:

>MG217690 representing NM_011863
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGATTCTGGGAGTCTGTGCAAGAAAGTCAAGCTGAGCAATAACCGCAGAACTGGGGATGCAGA
 GAGCAACCAACGTACCTATCAAGCCCACCATGTGACGAGGAATAAGAGAGGGCAGGTGGTGGGACCAG
 AGGTGGCTTCCGTGGTTGCACAGTTTGGCTGACAGGATTGTCGGAGCAGGGAAGACGACCGTGAGCATG
 GCTCTGGAGGAGTACCTGGTGTGCCACGGCATTCCGTGCTACACTTTGGATGGTGACAACATCCGCCAAG
 GACTCAATAAGAACCCTCGGCTTCAGTCTGAGGACAGAGAAGAGAACGTTCCGCCATAGCTGAGGTGGC
 GAAGCTGTTTGCAGATGCTGGCTTAGTGTGTATCACCAGCTTTATATCGCCTTACACACAGGATCGCAAC
 AACGCAAGGCAGATTCATGAGGGTGAAGCTTGCCTTCTTTGAAGTTTTTGTGATGCTCCTCTGCATG
 TCTGTGACAGAGGGATGTCAAAGGCCTCTACAAGAAGGCGGGCAGGGGAGATAAAGGCTTCACTGG
 CATCGATTCTGAGTATGAGAAACCCGAGCCCGGAGCTGGTGTGAAAACGGATTCTGTGACGTCAAC
 GACTGCGTCCAGCAGGTTGTGGAGCTTCTCAGGAACGGGACATCGTCCCTGTGGATGCTTCTATGAAG
 TGAAGAGCTATATGTGCCAGAGAATAAACTTCACTTGGCCAAAACCTGATGCAGAAGCCTTACCAGCCCT
 GAAAATCAATAAAGTGGATATGCAGTGGGTGCAGGTTTTGGCAGAAGGTTGGGCGACTCCTCTGAACGGC
 TTCATGAGAGAGAGGGAGTACTTGCAGTGCCTCCATTTGATTGTCTTCTGGATGGAGGCGTCATCAACT
 TATCGGTGCCTATAGTCTGACAGCTACGCACGAGGATAAGGAGAGGCTGGACGGCTGCACCGGTTTCGC
 TCTGGTGTATGAGGGCCCGCGTGGCCATCCTTCGGAATCCTGAATTTTTGAGCACCGGAAAGAGGAG
 CGGTGTGCCAGACAGTGGGAACAACATGCAAGAACCACCCCTACATCAAGATGGTCTGGAACAAGGGG
 ATTTGGTGAATGGAGGAGATCTCAAGTCTGGACCGGATTTACTGGAATGATGGTCTTGTATCAGTACCG
 CCTTACCCGACGGAGCTCAAGCAGAAGTTAAAGATATGAACGCTGATGCTGTCTTTGCATTTCAAGTTG
 CGCAACCCAGTGCACAACGGGCACGCTCTGTTAATGCAGGATACCCACAAGCAGCTTCTGGAGAGGGCT
 ACCGGCGCCTGTCTGTCTCTCCATCCTCTTGGTGGCTGGACGAAGGATGACGATGTCCCTCTGATGTG
 GCGTATGAAGCAGCAGCTGCAGTGTGGAGGAGGGCATCCTGGATCCTGAAACGACAGTGGTGGCCATT
 TTCCCGTCTCTATGATGTATGCTGGGCCAACCGAGGTCCAGTGGCACTGCAGGGCGCGGATGGTGGCCG
 GAGCCAATTTTTATATTGTTGGACGAGACCCTGCTGGCATGCCTCATCCGGAGACAGGGAAGGACCTCTA
 TGAGCCAACACATGGTGCCAAAGTGTGACGATGGCCCCAGGCTGATTACCTTGGAAATCGTTCCTTC
 CGAGTTGCAGCTTACAACAAGAAAAGAAGCGGATGGACTACTATGACTCTGAGCACCACGAAGACTTCG
 AGTTTATTTCAAGAACGAGGATGCGCAAGCTGGCACGCGAAGGCCAGAAACCTCCAGAGGGCTTCATGGC
 CCCAAGGCCTGGACTGTGCTGGTAGAGTACTACAAGTCTTAGAGAAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217690 representing NM_011863
 Red=Cloning site Green=Tags(s)

MEIPGSLCKVKLSNNAQNWGMQRATNVTYQAHVSRNKRQVVVTRGGFRGCTVWL TGLSGAGKTTVSM
 ALEEYL VCHGIPCYTL DGDNI RQGLNKNL GFSPEDREENVRRIAEVAKLFADAGLVCITSFISPYTQDRN
 NARQIHEGASLPFFFEVVDAPLHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVLKTDSCDVN
 DCVQQVVELLQERDIVPDASYEVKELYVPENKHLAKTDAEALPALKINKVDMQWVQVLAEGWATPLNG
 FMREREYLQCLHFDCLLDGGVINLSVPIVLTATHEDKERLDGCTAFALVYEGRRVAILRNPEFFEHRKEE
 RCARQWGTTCKNHPYIKMVLEQGDWLIIGDLQVLDRIYWNDGLDQYRLTPTTELKQKFKDMNADAVFAFQL
 RNPVHNGHALLMQDTHKQLLERGYRRPVLLLHPLGGWTKDDDVPLMWRMKQHAAVLEEGILDPETTVVAI
 FPSPMMYAGPTEVQWHCRARMVAGANFYIVGRDPAGMPHPETGKDLYEPTHGAKVLTMAPGLITLIEIVPF
 RVAAYNKKKRMDDYDSEHHDFEFISGTRMRKLAREGQKPPPEGFMAPKAWTVLVEYYKSLEKA

TRTRPLE - GFP Tag - V

Restriction Sites:

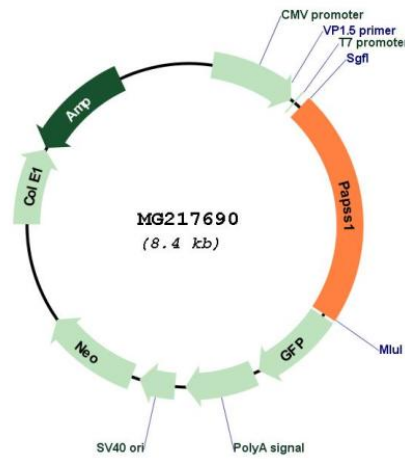
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<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:	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]