

Product datasheet for **MR230649**

Papss1 (NM_001289477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papss1 (NM_001289477) 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:

>MR230649 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGCAGAGAGCAACCAACGTACCTATCAAGCCCACCATGTCAGCAGGAATAAGAGAGGGCAGGTGGTGG
 GGACCAGAGGTGGCTTCCGTGGTTGCACAGTTTGGCTGACAGGATTGTCCGGAGCAGGGAAGACGACCGT
 GAGCATGGCTCTGGAGGAGTACCTGGTGTGCCACGGCATTCCGTGCTACACTTTGGATGGTGACAACATC
 CGCCAAGGACTCAATAAGAACCTCGGCTTCAGTCTGAGGACAGAGAAGAGAACGTTCCGCCATAGCTG
 AGGTGGCGAAGCTGTTTGCAGATGCTGGCTTAGTGTATCACCAGCTTTATATCGCCTTACACACAGGA
 TCGCAACAACGCAAGGCAGATTCATGAGGGTGAAGCTTGCCCTCTTTGAAGTTTTTGTGATGCTCCT
 CTGCATGTCTGTGAGCAGAGGGATGTCAAAGCCCTCTACAAGAAGGCGCGGCAGGGGAGATAAAAGGCT
 TCACTGGCATCGATTCTGAGTATGAGAAACCCGAGGCCCGGAGCTGGTGTGAAAACGGATTCTGTGA
 CGTCAACGACTGGTCCAGCAGGTTGTGGAGCTTCTTCAGGAACGGGACATCGTCCCTGTGGATGCTTCC
 TATGAAGTGAAAGAGCTATATGTCCAGAGAATAAACTTCACTTGGCCAAAACCTGATGCAGAAGCCTTAC
 CAGCCCTGAAAATCAATAAAGTGGATATGCAGTGGGTGCAGGTTTTGGCAGAAGTTGGGCGACTCCTCT
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 CGTTTCGCTCTGGTGTATGAGGGCCGCGCGTGGCCATCCTTCGGAATCCTGAATTTTTGAGCACCAGGAA
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 GGCCATTTTCCCGTCTCCTATGATGATGCTGGGCCAACCGAGGTCCAGTGGCACTGCAGGGCGCGGATG
 GTGGCCGAGCCAATTTTATATTGTTGGACGAGACCCTGCTGGCATGCCTATCCGGAGACAGGGAAGG
 ACCTCTATGAGCCAACACATGGTCCAAAGTGTGACGATGGCCCCAGGCCTGATTACCTTGAAATCGT
 TCCCTCCGAGTTCAGCTTACAACAAGAAAAAGAAGCGGATGGACTACTATGACTCTGAGCACCACGAA
 GACTTCGAGTTTATTTTCAGGAACGAGGATGCGCAAGCTGGCACGGAAGGCCAGAAACCTCCAGAGGGCT
 TCATGGCCCCAAGGCCTGGACTGTGCTGGTAGAGTACTACAAGTCTTAGAGAAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230649 protein sequence
 Red=Cloning site Green=Tags(s)

MQRATNVTYQAHVSRNKRQVVGTRGGFRGCTVWL TGLSGAGKTTVSMAL E EYL VCHGIPCYTLDGDNI
 RQGLNKNLGFSPEDREENVRRIAEVAKLFADAGLVCITSFISPYTQDRNNARQIHEGASLPFFEFVVDAP
 LHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVLKTDCDVNDVQVVELLQERDIVPDAS
 YEVKELYVPENKLLHAKTDAEALPALKINKVDMQWVQVLAEGWATPLNGFMREREYLQCLHFDCLLDGGV
 INLSVPIVLTATHEDKERLDGCTAFALVYEGRRVAILRNPEFFEHRKEERCARQWGTCKNHPIKMLE
 QGDWLIIGDLQVLDRIYWNDGLDQYRLTPTLQKQFKDMNADAVFAFQLRNPVHNGHALLMQDTHKQLLE
 RGYRRPVLLHPLGGWTKDDVPLMWRMKQHAAVLEEGILDPEVVVAIFPSPMMYAGPTEVQWHCRARM
 VAGANFYIVGRDPAGMPHPETGKDLYEPHGAKVLTMAPGLITLIEIVPFRVAAYNKKKKRMDYYDSEHHE
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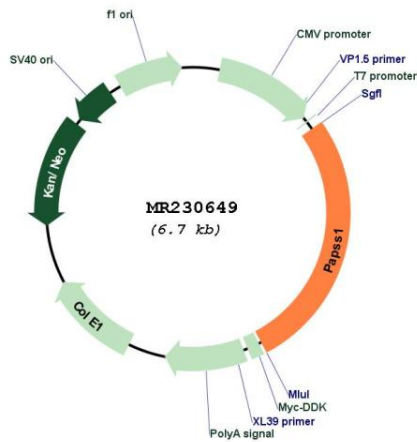
Restriction Sites:

Sgfl-MluI

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 MR230649