

Product datasheet for MR205896

Agpat4 (NM_026644) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agpat4 (NM_026644) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agpat4
Synonyms:	1500003P24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205896 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGACCTCATCGGGCTGCTGAAGTCCCAGTTTCTATGTCACCTGGTCTTCTGCTACGTGTTTCATCGCCT
CGGGGCTCATTGTCAACGCCATCCAGCTGTGCACGCTGGTCATCTGGCCCATCAACAAGCAGCTGTTCCG
CAAGATCAATGCCAGACTCTGCTACTGCGTCTCCAGCCAGTTGGTGATGCTTCTGGAGTGGTGGTGGGC
ACGGAGTGTACCATCTACACCGACCCGAAGGCCTGCCCCACTACGGGAAGGAAAACGCCATCGTGGTCC
TCAATCACAAGTTTGAGATTGACTTTCTCTGTGGCTGGAGCCTGGCTGAGCGCCTGGGGATCCTGGGGAA
CTCCAAAGTCCTGGCCAAGAAAGAACTGGCTTATGTCCCAATCATTGGCTGGATGTGGTACTTCTGTGGAA
ATGATCTTTTGCACACGCAAGTGGGAGCAAGATCGGCAGACGGTTGCCAAGAGCCTGCTGCACCTCCGGG
ACTACCCAGAGAAGTATCTGTTCTGATCCACTGTGAGGGCACACGGTTCACAGAGAAGAAAACACCAAT
CAGCATGCAGGTGGCCCAAGCCAAGGGGCTGCCAGCCTCAAACACCACCTGCTGCCGCGCACCAAAAGGC
TTTGCTATTACTGTGAAGTGCTTGCAGATGTTGTCCCAGCTGTATGACTGTACACTCAATTTTCAGAA
ACAATGAAAACCCAACACTGCTGGGAGTCTTAATGAAAAGAAATATCACGCTGACTGCTACGTTCCGGAG
GATCCCATGGAGGACATTCGGAGGATGAGGACAAGTGCTCTGCCTGGTTACACAAGCTCTACCAGGAG
AAGGATGCCTTTCAGGAGGAATACTACAGGACAGGGGTCTTCCAGAGACTCCCTGGGTTCCCCACGGC
GGCCCTGGTCTCTGGTCAACTGGTTGTTCTGGGCATCGCTGCTGCTTACCCTTTCTCCAGTTCCCTAGT
TAGCATGGTCAGCAGCGTTTCTCGGTGACGCTGGCCAGCTTGGTCTCATCTTCTGTATGGCCTCCATG
GGAGTTCGATGGATGATTGGCGTGACAGAAATCGACAAGGGCTCTGCCTACGGCAACATCGACAACAAAC
GGAAACAAACGGAC

ACGGTACGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205896 protein sequence
 Red=Cloning site Green=Tags(s)

MDLIGLLKSQFLCHLVFCYVFIASGLIVNAIQLCTLVIWPINKQLFRKINARLCYCVSSQLVMLLEWWSG
 TECTIYDTPKACPHYGKENAIVVLNHHKFEIDFLCGWSLAERLILGNSKVLAKKELAYVPIIGWMMYFVE
 MIFCTRKWEQDRQTVAKSLLHLRDYPEKYLFLIHCEGTRFTEKKHQISMVQAQAKGLPSLKHLLPRTKG
 FAITVKCLRDRVPAVYDCTLNFRNNENPTLLGVLNGKKYHADCVRRIPMEDIPEDDKCSAWLHKLYQE
 KDAFQEEYYRTGVFPETPWVPPRRPWSLVNWLFWASLLLYPFFQFLVSMVSSGSSVTLASLVLIFCMASM
 GVRWMIGVTEIDKGSAYGNIDNKRKQTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026644

ORF Size: 1137 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_026644.2](#)

RefSeq Size: 1910 bp

RefSeq ORF: 1137 bp

Locus ID: 68262

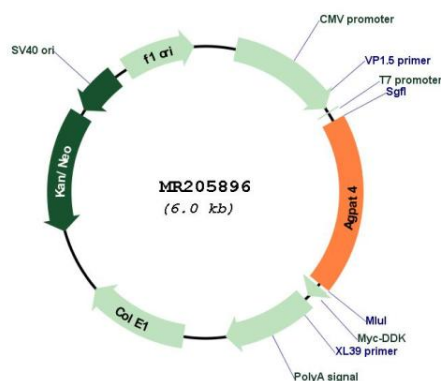
UniProt ID: [Q8K4X7](#)

Cytogenetics: 17 A1

MW: 43.8 kDa

Gene Summary: Converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (PubMed:15367102). Exhibits high acyl-CoA specificity for polyunsaturated fatty acyl-CoA, especially docosahexaenoyl-CoA (22:6-CoA, DHA-CoA) (PubMed:24333445).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205896