

Product datasheet for MR205612

Agpat5 (NM_026792) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agpat5 (NM_026792) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agpat5
Synonyms:	1110013A05Rik; D8Ertd319e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205612 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGTCCCTGGTCTCCACAGTACTCTATGCGCTACCTGCTCCCAGCGTCTCTGTTGCTGGGCT
CGGCGCCACCTACCTGCTGGCCTGGACGCTGTGGCGGTGCTCTCCGCGCTGATGCCGCCCGCCTGTA
CCAGCGCTGGACGACCGGCTTTACTGCGTCTACCAGAACATGGTGTCTTCTTCTCGAGAACTACACC
GGGTCCAGATATTGCTATATGGAGATTTGCCAAAAATAAGAAAATGTAATATATCTAGCGAATCATC
AAAGCACAGTTGACTGGATTGTTGCGGACATGCTGGCTGCCAGACAGGATGCCCTAGGACATGTGCGCTA
CGTACTGAAAGACAAGTTAAAATGGCTTCGCTGTATGGTTCTACTTTGCTCAGCATGGAGGAATTTAT
GTAAAACGAAGTGCCAAATTTAATGATAAAGAAATGAGAAGCAAGCTGCAGAGCTATGTGAACGCAGGAA
CACCAATGTATCTTGTGATTTCCAGAGGGAACAAGGTATAATGCAACATACACAAAACCTCTTCAGC
CAGTCAGGCATTTGCTGCTCAGCGCGCCTTGCAATTTAAACAGTACTGACACCAAGAATAAAGGCC
ACTCACGTTGCTTTTGTATCTATGAAGAGTCATTTAGATGCAATTTATGATGTCACAGTGGTTTATGAAG
GGAATGAGAAAGGTTCCAGAAAATACTCAAATCCACCATCCATGACTGAGTTTCTCTGCAACAGTGCCC
AAAACCTCATATTCATTTGATCGTATAGACAGAAATGAAGTTCAGAGGAACAAGAACACATAAAAAG
TGGCTTCATGAGCGCTTTGAGATAAAGATAGGTTGCTCATAGAGTTCTATGATTCACCATCCAGAAA
GAAGAAACAATTTCTGGGAAAAGTGTTCAATCCAGACTAAGTGTGAAGAAGACTTTACCTTCAGTGTT
GATCTTGGGAGTTTACTGCTGTCATGCTGATGACGGAGTCCGGAAGGAAACTCTACATGGGCACCTGG
TTGTATGGAACCTCCTTGGCTGCCTGTGGTTTGTATTAAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205612 protein sequence
Red=Cloning site Green=Tags(s)

MLLSVLHTYSMRYLLPSVLLLGSAPTYYLLAWTLWRVLSALMPARLYQRVDDRLYCVYQNMVLEFFENY
 GVQILLYGDLPKNKENVIYLANHQSTVDWIVADMLAARQDALGHVRYVLKDKLKWLPYGFYFAQHGGIY
 VKRSKAFNDKEMRSLQSYVNAGTPMYLVIFPEGTRYNATYTKLLSASQAFAAQRGLAVLKHVLT
 THVAFDSMKSHLDAIYDVTVVYEGNEKSGSKYSNPPSMTEFLCKQCPLHIHFDRIDRNEVPEEQEHMKK
 WLHERFEIKDRLLIEFYDSPDPERRNKFPKGSVHSRSLVKKTLPSVLILGSLTAVMLMTESEGRKLYMG
 TLYGTLLGCLWFIKA

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_026792

ORF Size: 1098 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_026792.1](#), [NM_026792.2](#), [NM_026792.3](#), [NP_081068.1](#)

RefSeq Size: 3829 bp

RefSeq ORF: 1098 bp

Locus ID: 52123

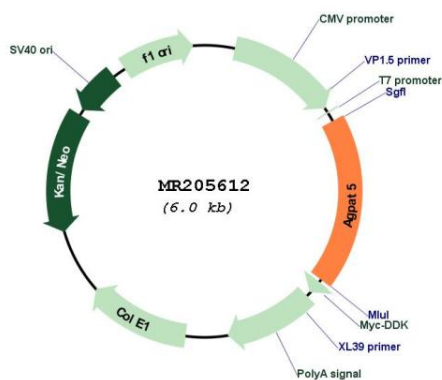
UniProt ID: [Q9D1E8](#)

Cytogenetics: 8 10.3 cM

MW: 42.2 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). Acts on LPA containing saturated or unsaturated fatty acids C15:0-C20:4 at the sn-1 position using C18:1-CoA as the acyl donor (By similarity). Also acts on lysophosphatidylethanolamine using oleoyl-CoA, but not arachidonoyl-CoA, and lysophosphatidylinositol using arachidonoyl-CoA, but not oleoyl-CoA (By similarity). Activity toward lysophosphatidylglycerol not detectable (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205612