

Product datasheet for **MG205612**

Agpat5 (NM_026792) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agpat5 (NM_026792) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Agpat5
Synonyms:	1110013A05Rik; D8Ertd319e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205612 representing NM_026792 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGTCCCTGGTCTCCACACGTA CTCTATGCGCTACCTGCTCCCAGCGTCCTGTTGCTGGGCT
CGGCGCCACCTACCTGCTGGCCTGGACGCTGTGGCGGGTCTCTCCGCGCTGATGCCGCCCGCCTGTA
CCAGCGCTGGACGACCGGCTTTACTGCGTCTACCAGAACATGGTGTCTTCTTCTCGAGA ACTACACC
GGGTCCAGATATTGCTATATGGAGATTTGCCAAAAATAAGAAAATGTAATATATCTAGCGAATCATC
AAAGCACAGTTGACTGGATTGTTGCGGACATGCTGGCTGCCAGACAGGATGCCCTAGGACATGTGCGCTA
CGTACTGAAAGACAAGTTAAAATGGCTTCCGCTGTATGGTTCTACTTTGCTCAGCATGGAGGAATTTAT
GTAAAACGAAGTGCCAAATTTAATGATAAAGAAATGAGAAGCAAGCTGCAGAGCTATGTGAACGCAGGAA
CACCAATGTATCTTGTGATTTCCAGAGGGAACAAGGTATAATGCAACATACACAAAACCTCTTTCAGC
CAGTCAGGCATTTGCTGCTCAGCGCGCCTTGCAGTATTAACACGTA CTGACACCAAGAATAAAGGCC
ACTCACGTTGCTTTTGTCTATGAAGAGTCATTTAGATGCAATTTATGATGTACAGTGGTTTATGAAG
GGAATGAGAAAGGTT CAGGAAAATACTCAAATCCACCATCCATGACTGAGTTTCTCTGCAACAGTGCCC
AAAACCTCATATTCACCTTGTGATCGTATAGACAGAAATGAAGTTCAGAGGAACAAGAACACATGAAAAAG
TGGCTTCATGAGCGCTTTGAGATAAAGATAGGTTGCTCATAGAGTTCTATGATTCACAGATCCAGAAA
GAAGAAACAATTTCTGGGAAAAGTGTTCAATCCAGACTAAGTGTGAAGAAGACTTTACCTTCAGTGTT
GATCTTGGGGAGTTTGACTGCTGTCATGCTGATGACGGAGTCCGGAAGGAAACTCTACATGGGCACCTGG
TTGTATGGAACCTCCTTGGCTGCCTGTGGTTTGTATTAAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG205612 representing NM_026792
 Red=Cloning site Green=Tags(s)

MLLSVLHTYSMRYLLPSVLLLGSAPTYLLAWTLWRVLSALMPARLYQRVDDRLYCVYQNMVLEFFENY
 GVQILLYGDLPKNKENVIYLANHQSTVDWIVADMLAARQDALGHVRYVLKDKLKWLPYGFYFAQHGGIY
 VKRSKAFNDKEMRSLQSYVNAGTPMYLVIFPEGTRYNATYTKLLSASQAFAAQRGLAVLKHVLT
 THVAFDSMKSHLDAIYDVTVVYEGNEKSGSKYSNPPSMTEFLCKQCPLHIHFDRIDRNEVPEEQEHM
 KKLWHERFEIKDRLLIEFYDSDPERRNKFPKGSVHSRSLVKKTLPSVLIILGSLTAVMLMTESGRKLY
 MGTWLYGTLLGCLWFVIKA

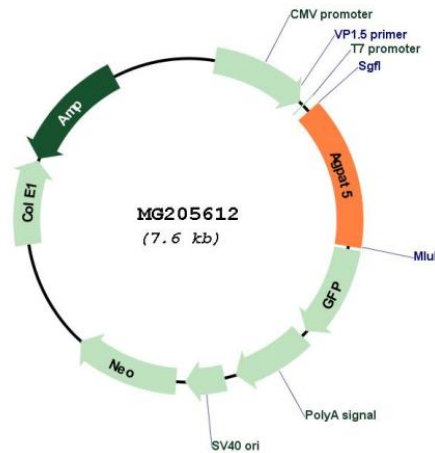
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026792

ORF Size:	1095 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_026792.3 , NP_081068.1
RefSeq Size:	3829 bp
RefSeq ORF:	1098 bp
Locus ID:	52123
UniProt ID:	Q9D1E8
Cytogenetics:	8 10.3 cM
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]