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Product datasheet for MG205896

Agpat4 (NM_026644) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agpat4 (NM_026644) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Agpat4
Synonyms:	1500003P24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG205896 representing NM_026644
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCTCATCGGGCTGCTGAAGTCCCAGTTTCTATGTCACCTGGTCTTCTGCTACGTGTTCATCGCCT
CGGGGCTCATTGTCAACGCCATCCAGCTGTGCACGCTGGTCATCTGGCCCATCAACAAGCAGCTGTTCCG
CAAGATCAATGCCAGACTCTGCTACTGCGTCTCCAGCCAGTTGGTGATGCTTCTGGAGTGGTGGTCGGGC
ACGGAGTGTACCATCTACACCGACCCGAAGGCCTGCCCCCACTACGGGAAGGAAAACGCCATCGTGGTCC
TCAATCACAAGTTTGAGATTGACTTTCTCTGTGGCTGGAGCCTGGCTGAGCGCCTGGGGATCCTGGGGAA
CTCCAAAGTCCTGGCCAAGAAAGAACTGGCTTATGTCCCAATCATTGGCTGGATGTGGTACTTCGTGGAA
ATGATCTTTTGCACACGCAAGTGGGAGCAAGATCGGCAGACGGTTGCCAAGAGCCTGCTGCACCTCCGGG
ACTACCCAGAGAAGTATCTGTTCCTGATCCACTGTGAGGGCACACGGTTCACAGAGAAGAAACACCAAAT
CAGCATGCAGGTGGCCCAAGCCAAGGGGCTGCCCAGCCTCAAACACCACCTGCTGCCGCGCACCAAAGGC
TTTGCTATTACTGTGAAGTGCTTGCGAGATGTTGTCCCAGCTGTATATGACTGTACACTCAATTTCAGAA
ACAATGAAAACCCAACACTGCTGGGAGTCTTAAATGGAAAGAAATATCACGCTGACTGCTACGTTCGGAG
GATCCCCATGGAGGACATTCCGGAGGATGAGGACAAGTGCTCTGCCTGGTTACACAAGCTCTACCAGGAG
AAGGATGCCTTTCAGGAGGAATACTACAGGACAGGGGTCTTCCCAGAGACTCCCTGGGTTCCCCCACGGC
GGCCCTGGTCTCTGGTCAACTGGTTGTTCTGGGCATCGCTGCTGCTCTACCCTTTCTTCCAGTTCCTAGT
TAGCATGGTCAGCAGCGGTTCCTCGGTGACGCTGGCCAGCTTGGTCCTCATCTTCTGTATGGCCTCCATG
GGAGTTCGATGGATGATTGGCGTGACAGAAATCGACAAGGGCTCTGCCTACGGCAACATCGACAACAAAC
GGAAACAAACGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

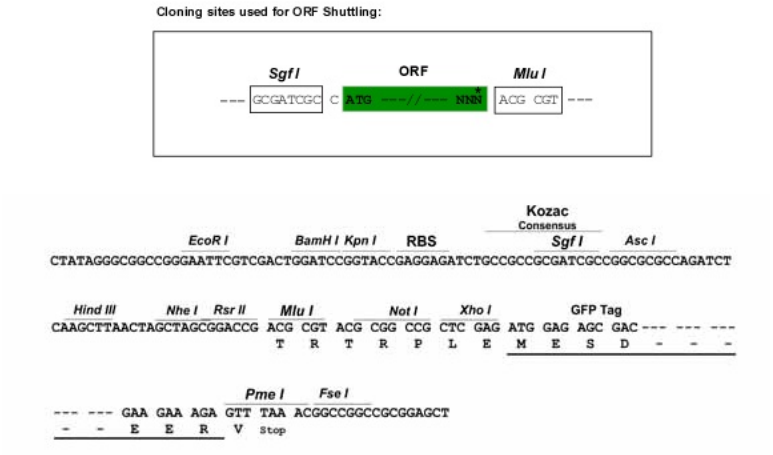
>MG205896 representing NM_026644
Red=Cloning site Green=Tags(s)

MDLIGLLKSQFLCHLVFCYVFIASGLIVNAIQLCTLVIWPINKQLFRKINARLCYCVSSQLVMLLEWWSG
TECTIYTDPKACPHYGKENAIVVLNHKFEIDFLCGWSLAERLGILGNSKVLAKKELAYVPIIGWMWYFVE
MIFCTRKWEQDRQTVAKSLLHLRDYPEKYLFLIHCEGTRFTEKKHQISMQVAQAKGLPSLKHHLLPRTKG
FAITVKCLRDVVPAVYDCTLNFRNNENPTLLGVLNGKKYHADCYVRRIPMEDIPEDEDKCSAWLHKLYQE
KDAFQEEYYRTGVFPETPWVPPRRPWSLVNWLFWASLLLYPFFQFLVSMVSSGSSVTLASLVLIFCMASM
GVRWMIGVTEIDKGSAYGNIDNKRKQTD

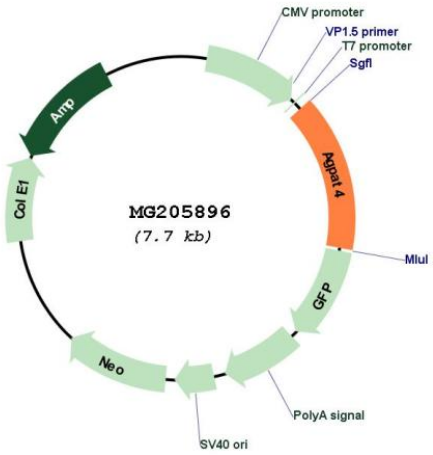
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026644

ORF Size:	1134 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:	1912 bp
RefSeq ORF:	1137 bp
Locus ID:	68262
UniProt ID:	Q8K4X7
Cytogenetics:	17 A1
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]