

Product datasheet for **MG201590**

Abhd12 (NM_024465) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abhd12 (NM_024465) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Abhd12
Synonyms: 1500011G07Rik; 6330583M11Rik; AI431047; AW547313
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201590 representing NM_024465
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGTATGACGACTCCATGTTTTGACTGGATCAAAGCAAGAAGTGGTGATAATCCTGTGTATTT
 GGGGCCATTCAGTGGCACCGGAGTGGCAACAAATCTGGTACGGCGCCTCTGTGAGCGAGAGACGCCACC
 AGATGCCCTTATATTGGAGTCTCCATTCACAAATATTCGTGAAGAAGCAAAGATCATCCATTTTCAGTG
 ATATACCGATACTCCCTGGCTTTGACTGGTCTCTCCTCGACCCATTACAAGCAGTGAATTAATTTG
 CAAATGACGAAAATATGAAGCACATCTCCTGCCCTCTGCTCATCTGCATGCCGAGGATGATCCAGTTGT
 GCCCTTTCATCTCGGTAGAAAGCTATACAACATTGCTGCGCCATCTCGAAGTTTCCGAGACTTCAAAGTC
 CAGTTTATCCCCTTTCAGTCTCAGACCTTGCTACAGACATAAATACATCTACAAGAGCCAGAGCTTCCAA
 GGATACTGAGGAATTCCTAGGGAAGTCGGAACCGGAACGCCAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201590 representing NM_024465
 Red=Cloning site Green=Tags(s)

MTYDALHVFWDWIKARSGDNPVYIWGHSLGTGVATNLVRRLCERETPPDALILESPTNIREEAKSHPFV
 IYRYFPGFDWFFLDPIITSSGIKFANDENMKHISCPDLLILHAEDDPVVPFHLGRKLYNIAAPSRFRDFKV
 QFIPFHSDLGYRHKYIYKSPFLPRILREFLGKSEPERQH

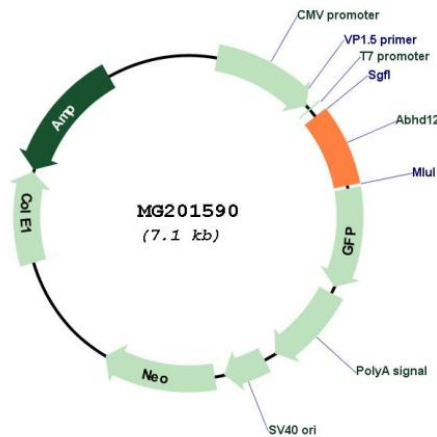
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_024465

ORF Size: 537 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:	<u>NM_024465.1</u>
RefSeq Size:	1292 bp
RefSeq ORF:	1197 bp
Locus ID:	76192
UniProt ID:	<u>Q99LR1</u>
Cytogenetics:	2 G3
Gene Summary:	Lysophosphatidylserine (LPS) lipase that mediates the hydrolysis of lysophosphatidylserine, a class of signaling lipids that regulates immunological and neurological processes (PubMed:23297193, PubMed:25580854, PubMed:30420694). Represents a major lysophosphatidylserine lipase in the brain, thereby playing a key role in the central nervous system (PubMed:23297193). Also able to hydrolyze oxidized phosphatidylserine; oxidized phosphatidylserine is produced in response to severe inflammatory stress and constitutes a proapoptotic 'eat me' signal (PubMed:30643283). Also has monoacylglycerol (MAG) lipase activity: hydrolyzes 2-arachidonoylglycerol (2-AG), thereby acting as a regulator of endocannabinoid signaling pathways (PubMed:18096503). Has a strong preference for very-long-chain lipid substrates; substrate specificity is likely due to improved catalysis and not improved substrate binding (PubMed:30237167).[UniProtKB/Swiss-Prot Function]