

## Product datasheet for **RR211309**

### Abhd12 (NM\_001024314) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Abhd12 (NM\_001024314) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Abhd12  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR211309 representing NM\_001024314  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGAAGCGGACCGAGCCCGTCACCTTGGAGCATGAGCGCTGCGCCGCTCAGGCTCGTCTTCTCTCCG  
 GCTCGGCCGCGGCGCTGGACGCGACTGCAGCTTGAAGCAGAACCTGCGTCTGGCGGGCAAGGGGAC  
 GGCAGAGCCGCACAGCGCATCCGACGCGGGCATGAAGCGGGCTCTGGCAGACGGAAGAGCTGTGGTTC  
 CGACTAAGGAAGATACTTCTCTGTGTTTTGGGGTTCTACATTGCCATTCCATTTCTGTCAAAGTGTGC  
 CTGGGATACAGGCCAAACTGATATTCTTAAATTCGTGAGGGTCCCTATTTCTTACTGACTTAAAAAGCC  
 ACAGGATCAAGGTTTGAATCACACCTGCAATTACTACCTCCAGCCGAGGATGATGTCACCTATTGGAGTC  
 TGGCACACCATTCCCTCTGTCTGGTGAAGAATGCCAAGGGAAGGACCAGATGTGGTATGAGGATGCTC  
 TGGCTTCAACCACCCATCATCTGTACCTGCATGGGAATGCAGGCACCAGAGGAGTGACCACCGTGT  
 GGAGCTGTACAAGGTGCTGAGTTCCTTGGTTACCACGTGGTACCTTCGACTACAGAGTTGGGGTGAC  
 TCAGTAGGAACACCATCAGAGCGAGGCATGACATATGATGCACTCCATGTTTTGACTGGATCAAAGCAA  
 GAAGTGGTGATAATCCTGTGATATCTGGGGCCATTCGCTGGGCACTGGAGTGGCAACAAATCTGGTCCG  
 GCGCTTTGTGAGCGAGAGACGCCACCAGATGCCCTTATATTGGAGTCTCCGTTCAAAATATTCGTGAA  
 GAAGCAAAGAGTCATCCATTTTCAGTGATATACAGATACTTCCCAGGCTTTGACTGGTCTTCTCTCGACC  
 CCATTACAAGCAGTGAATTAATTTGCAAATGACGAAAACATGAAGCACATCTCCTGTCCCCTGTCTCAT  
 CTTGCACGCTGAGGATGACCCAGTTGTACCCTTTCATCTCGGCAGGAAGCTATACAATATTGCTGCGCCA  
 TCCCGAAGTTTCCGAGACTTCAAAGTCCAGTTCATCCCTTTCACTCAGACCTTGGCTACAGACATAAGT  
 ACATCTACAAGAGCCAGAGCTTCCACGGATACTGAGGGAATTCCTAGGGAAGTCGGAACAGAGCGCCA  
 GCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR211309 representing NM\_001024314  
 Red=Cloning site Green=Tags(s)

MRKRTEPVTLEHERCAASGSSSSGSAAAALDADCSLKQNLRLAGKGTAEPHSASDAGMKRALGRRKSLWF  
 RLRKILLCVLGFYIAIPFLVKLCPGIQAKLIFLNFRVVPYFIDLKPKDQQLNHTCNYYLQPEDDVTIGV  
 WHTIPSVWVKNAQKQDKMWEYEDALASNHP IILYLHGNAGTRGGDHRVELYKVLSSLGYHVVTFFDYRGWGD  
 SVGTPSERGMTYDALHVFWDWIKARSGDNPVYIIGHSLGTGVATNLVRRLCERETPPDALILESPFTNIRE  
 EAKSHPFVSIYRYFPGFDWFFLDPIITSSGKIFANDENMKHISCPILLILHAEDDPVVPFHLGRKLYNIAAP  
 SRSFRDFKVQFIPFHSDLGYRHKYIYKSPFLPRILREFLGKSEPERQH

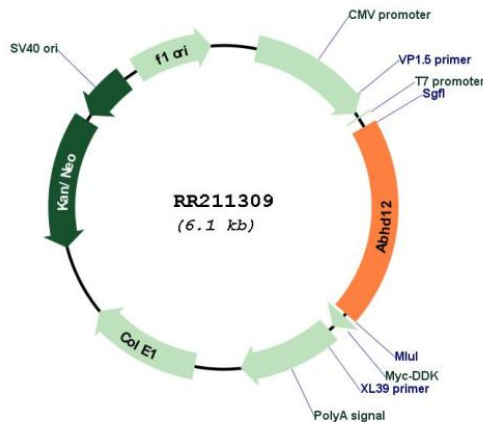
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001024314

<b>ORF Size:</b>	1194 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001024314.1</a> , <a href="#">NP_001019485.1</a>
<b>RefSeq Size:</b>	1982 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	499913
<b>UniProt ID:</b>	<a href="#">Q6AYT7</a>
<b>Cytogenetics:</b>	3q41
<b>MW:</b>	45.3 kDa

**Gene Summary:**

Lysophosphatidylserine (LPS) lipase that mediates the hydrolysis of lysophosphatidylserine, a class of signaling lipids that regulates immunological and neurological processes (By similarity). Represents a major lysophosphatidylserine lipase in the brain, thereby playing a key role in the central nervous system (By similarity). Also able to hydrolyze oxidized phosphatidylserine; oxidized phosphatidylserine is produced in response to severe inflammatory stress and constitutes a proapoptotic 'eat me' signal. Also has monoacylglycerol (MAG) lipase activity: hydrolyzes 2-arachidonoylglycerol (2-AG), thereby acting as a regulator of endocannabinoid signaling pathways. Has a strong preference for very-long-chain lipid substrates; substrate specificity is likely due to improved catalysis and not improved substrate binding (By similarity).[UniProtKB/Swiss-Prot Function]