

## Product datasheet for **RG205745**

### ABHD4 (NM\_022060) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD4 (NM_022060) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABHD4
Synonyms:	ABH4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205745 representing NM_022060 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGATGATCTGGAGCAGCAGTCTCAAGGCTGGCTGAGTAGCTGGCTGCCACGTGGCGCCCCACTT  
CCATGTCTCAGCTGAAGAATGTGGAAGCCAGGATCCTCCAGTGTCTCCAGAATAAGTTCCTGGCCAGATA  
TGTATCCCTCCAAACCAGAATAAGATCTGGACGGTACTGTGAGCCCCGAGCAAACGACCGCACCCCC  
TTGGTGATGGTGCATGGTTTTGGGGCGGCGTGGGTCTCTGGATCCTCAACATGGACTCACTGAGTGCC  
GCCGCACACTGCACACCTTCGATCTGCTTGGCTTCGGGCGAAGCTCAAGGCCAGCATTCCAAGGGACCC  
GGAGGGGGCTGAGGATGAGTTTGTGACATCGATAGAGACATGGCGGGAGACCATGGGGATCCCAGCATG  
ATCCTCCTGGGGCACAGTTTGGGAGGATTCTGGCCACTTCTTACTCAATCAAGTACCCTGATAGAGTTA  
AACACCTCATCCTGGTGGACCATGGGGCTTCCCTCCGACCAACTAACCCAGTGAGATCCGTGCACC  
CCCAGCCTGGGTCAAAGCCGTGGCATCTGTCTAGGACGTTCCAATCCATTGGCTGTTCTTCGAGTAGCT  
GGGCCCTGGGGCCTGGTCTGGTGCAGCGATTCCGGCCGACTTCAAACGCAAGTTTGCAGACTTCTTTG  
AAGATGATACCATATCAGAGTATATTTACCACTGCAACGCACAGAATCCCAGTGGTGAGACAGCATTCAA  
AGCCATGATGGAGTCCTTTGGCTGGGCCCGGCCCTATGCTGGAGCGAATTCACATTGATTCGAAAAGAT  
GTGCCATCACTATGATCTACGGGTCGACACCTGGATAGATACCAGTACGGGAAAAAGGTGAAGATGC  
AGCGGCCGATTCTATGTCCGAGACATGGAGATTAAGGGTGCCTCCACCATGTCTATGCTGACCAGCC  
ACACATCTCAATGCTGTGGTGGAGGAGATCTGCGACTCAGTTGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205745 representing NM\_022060  
Red=Cloning site Green=Tags(s)

MADDLEQQSQGWLSSWLPTWRPTSMSQLKNVEARILQCLQNKFLARYVSLPNQNKIWTVTVSPEQNDRTPLVMVHGFGGVGLWILNMDLSARRTLHTFDLLGFGRRSRPAFPRDPEGADEFVTSIETWRETMGIPSMILLGHSLGGFLATSYSIKYPDRVKHLILVDPWGFPLRPTNPSEIRAPPAWVKAVASVLGRSNPLAVLRVAGPWGPGLVQRFRPDFKRFADFEDDTISEYIYHCNAQNPSGETAFKAMMESFGWARRPMLERIHILIRKDVPIITMIYGSDTWIDTSTGKKVKMQRPDSYVRDMEIKGASHHVVADQPHIFNAVVEEICDSVD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022060

**ORF Size:** 1026 bp

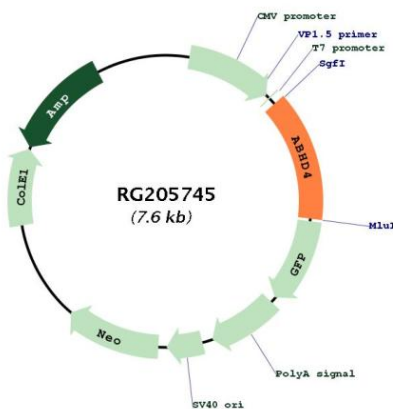
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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_022060.2</a> , <a href="#">NP_071343.2</a>
<b>RefSeq Size:</b>	2543 bp
<b>RefSeq ORF:</b>	1029 bp
<b>Locus ID:</b>	63874
<b>UniProt ID:</b>	<a href="#">Q8TB40</a>
<b>Cytogenetics:</b>	14q11.2
<b>Domains:</b>	abhydrolase
<b>Protein Families:</b>	Protease
<b>Gene Summary:</b>	Lysophospholipase selective for N-acyl phosphatidylethanolamine (NAPE). Contributes to the biosynthesis of N-acyl ethanolamines, including the endocannabinoid anandamide by hydrolyzing the sn-1 and sn-2 acyl chains from N-acyl phosphatidylethanolamine (NAPE) generating glycerophospho-N-acyl ethanolamine (GP-NAE), an intermediate for N-acyl ethanolamine biosynthesis. Hydrolyzes substrates bearing saturated, monounsaturated, polyunsaturated N-acyl chains. Shows no significant activity towards other lysophospholipids, including lysophosphatidylcholine, lysophosphatidylethanolamine and lysophosphatidylserine.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG205745