

## Product datasheet for **RG200915**

### **ABHD6 (NM\_020676) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD6 (NM_020676) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABHD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200915 representing NM_020676 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCTTGATGTGGTTAACATGTTTGTGATTGCGGGCGGCACGCTGGCCATCCCAATCCTGGCATTG  
TGGCTTCATTTCTTCTGTGGCCTTCAGCACTGATAAGAATCTATTATTGGTACTGGCGGAGGACATTGGG  
CATGCAAGTCCGCTATGTTACCATGAAGACTATCAGTTCTGTTATTCTCCGGGCGAGGCCTGGGCAC  
AAACCTCCATCCTCATGCTCCACGGATTCTCTGCCACAAGGATATGTGGCTCAGTGTGGTCAAGTTCC  
TTCCAAAGAACCTGCACCTGGTCTGCGTGGACATGCCAGGACATGAGGGCACCACCGCTCCTCCCTGGA  
TGACCTGTCCATAGATGGGCAAGTTAAGAGGATACACCAGTTTGTAGAATGCCTGAAGCTGAACAAAAA  
CCTTCCACCTGGTAGGCACCTCCATGGGTGGCCAGGTGGCTGGGTGTATGCTGCTTACTACCCATCGG  
ATGTCTCCAGCCTGTGTCTCGTGTGCCTGCTGGCCTGCAGTACTCAACTGACAATCAATTTGTACAACG  
GCTCAAAGAACTGCAGGGCTCTGCCGCGTGGAGAAGATCCCTTGATCCCGTCTACCCAGAAGAGATG  
AGTGAAATGCTTCAGCTCTGCTCCTATGTCCGCTTCAAGGTGCCCGCAGCAGATCCTGCAAGGCCTTGTCG  
ATGTCCGCATCCCTCATAACAATTCTACCGAAAGTTGTTTTGGAAATCGTCAGTGAGAAGTCCAGATA  
CTCTCTCCATCAGAACATGGACAAGATCAAGTCCGACGCAGATCATCTGGGGGAAACAAGACCAGGTG  
CTGGATGTCTGGGGCAGACATGTTGGCCAAGTCAATTGCCAACTGCCAGGTGGAGCTTCTGGAAAAT  
GTGGGCACCTCAGTAGTGATGGAAAGACCCAGGAAGACAGCAAGCTCATAATCGACTTTTGTAGCTTCTGT  
GCACAACACAGACAACAACAAGAAGCTGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200915 representing NM\_020676

Red=Cloning site Green=Tags(s)

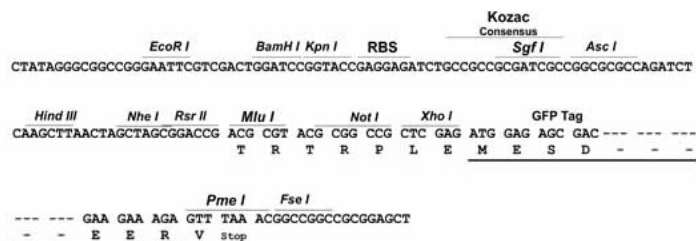
MDLDVVNMFVIAGGTLAIPILAFVASFLLWPSALIRIYYWYRRRTLGMQVRYVHHEDYQFCYSFRGRPGH  
 KPSILMLHGFSAHKDMLSVVKFLPKNLHLVCVDMPGHEGTTTRSSLDLSDGGQVKRIHQFVECLKLNKK  
 PFHLVGTSMGGQVAGVYAAAYPSDVSSCLCLVCPAGLQYSTDNQFVQRKELQGSAAVEKIPLIPSTPEEM  
 SEMLQLCSYVRFKVPQQILQGLVDVRIPHNMFYRKLFLFLEIVSEKSRYSLHQNMMDKIKVPTQIIWKGQDQV  
 LDVSGADMLAKSIANCQVELLENCGHSVVMERPRKTAKLIIDFLASVHNTDNNKKLD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_020676

**ORF Size:** 1011 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\\_020676.6](#)

**RefSeq Size:** 2364 bp

**RefSeq ORF:** 1014 bp

**Locus ID:** 57406

**UniProt ID:** [Q9BV23](#)

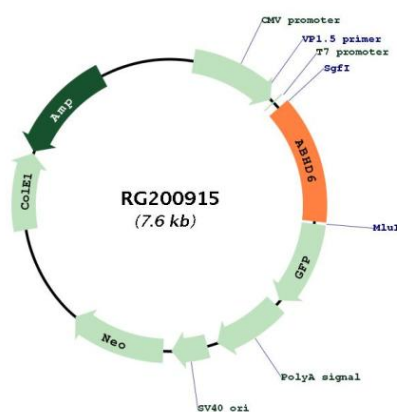
**Cytogenetics:** 3p14.3

**Domains:** abhydrolase

**Protein Families:** Transmembrane

**Gene Summary:** Lipase that preferentially hydrolysis medium-chain saturated monoacylglycerols including 2-arachidonoylglycerol (PubMed:22969151). Through 2-arachidonoylglycerol degradation may regulate endocannabinoid signaling pathways (By similarity). Also has a lysophosphatidyl lipase activity with a preference for lysophosphatidylglycerol among other lysophospholipids (By similarity). Also able to degrade bis(monoacylglycero)phosphate (BMP) and constitutes the major enzyme for BMP catabolism (PubMed:26491015). BMP, also known as lysobisphosphatidic acid, is enriched in late endosomes and lysosomes and plays a key role in the formation of intraluminal vesicles and in lipid sorting (PubMed:26491015). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG200915