OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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
GCCGCGATCGCC

ATGGATCTTGATGTGGTTAACATGTTTGTGATTGCGGGCGGCACGCTGGCCATCCCAATCCTGGCATTTG
TGGCTTCATTTCTTCTGTGGCCTTCAGCACTGATAAGAATCTATTATTGGTACTGGCGGAGGACATTGGG
CATGCAAGTCCGCTATGTTCACCATGAAGACTATCAGTTCTGTTATTCCTTCCGGGGCAGGCCTGGGCAC
AAACCCTCCATCCTCATGCTCCACGGATTCTCTGCCCACAAGGATATGTGGCTCAGTGTGGTCAAGTTCC
TTCCAAAGAACCTGCACTTGGTCTGCGTGGACATGCCAGGACATGAGGGCACCACCCGCTCCTCCCTGGA
TGACCTGTCCATAGATGGGCAAGTTAAGAGGATACACCAGTTTGTAGAATGCCTGAAGCTGAACAAAAAA
CCTTTCCACCTGGTAGGCACCTCCATGGGTGGCCAGGTGGCTGGGGTGTATGCTGCTTACTACCCATCGG
ATGTCTCCAGCCTGTGTCTCGTGTGTCCTGCTGGCCTGCAGTACTCAACTGACAATCAATTTGTACAACG
GCTCAAAGAACTGCAGGGCTCTGCCGCCGTGGAGAAGATTCCCTTGATCCCGTCTACCCCAGAAGAGATG
AGTGAAATGCTTCAGCTCTGCTCCTATGTCCGCTTCAAGGTGCCCCAGCAGATCCTGCAAGGCCTTGTCG
ATGTCCGCATCCCTCATAACAACTTCTACCGAAAGTTGTTTTTGGAAATCGTCAGTGAGAAGTCCAGATA
CTCTCTCCATCAGAACATGGACAAGATCAAGGTTCCGACGCAGATCATCTGGGGGAAACAAGACCAGGTG
CTGGATGTGTCTGGGGCAGACATGTTGGCCAAGTCAATTGCCAACTGCCAGGTGGAGCTTCTGGAAAACT
GTGGGCACTCAGTAGTGATGGAAAGACCCAGGAAGACAGCCAAGCTCATAATCGACTTTTTAGCTTCTGT
GCACAACACAGACAACAACAAGAAGCTGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

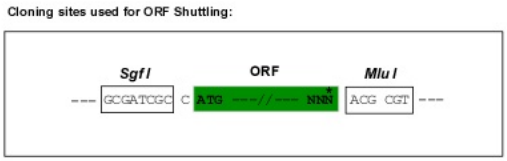
>RG200915 representing NM_020676
Red=Cloning site Green=Tags(s)

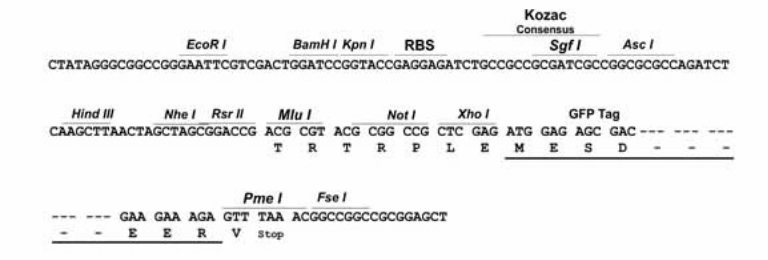
MDLDVVNMFVIAGGTLAIPILAFVASFLLWPSALIRIYYWYWRRTLGMQVRYVHHEDYQFCYSFRGRPGH
KPSILMLHGFSAHKDMWLSVVKFLPKNLHLVCVDMPGHEGTTRSSLDDLSIDGQVKRIHQFVECLKLNKK
PFHLVGTSMGGQVAGVYAAYYPSDVSSLCLVCPAGLQYSTDNQFVQRLKELQGSAAVEKIPLIPSTPEEM
SEMLQLCSYVRFKVPQQILQGLVDVRIPHNNFYRKLFLEIVSEKSRYSLHQNMDKIKVPTQIIWGKQDQV
LDVSGADMLAKSIANCQVELLENCGHSVVMERPRKTAKLIIDFLASVHNTDNNKKLD

TRTRPLE – GFP Tag – V

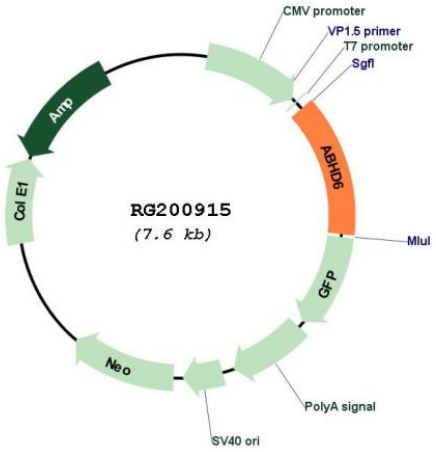
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



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]