

## Product datasheet for **SC320252**

### **ABHD6 (NM\_020676) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABHD6 (NM_020676) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABHD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene sequence for NM\_020676.4  
 GCCCGGGCAGGTCCCAGCCCGGGGCTAGAGACCGAGGGCCGGGGTCCGGGCCCGGCGG  
 CCGGACCCAGGCGGTTGAGGCTGGTCAGGAGTCAGCCAGCCTGAAAGAGCAGGATGGATC  
 TTGATGTGGTTAACATGTTTGTGATTGCGGGCGGCACGCTGGCCATCCCAATCCTGGCAT  
 TTGTGGCTTCATTTCTTGTGGCCTTCAGCACTGATAAGAATCTATTATTGGTACTGGC  
 GGAGGACATTGGGCATGCAAGTCCGCTATGTTCCACCATGAAGACTATCAGTTCTGTTATT  
 CCTTCCGGGGCAGGCTGGGCACAAACCCTCCATCCTCATGCTCCACGGATTCTCTGCC  
 ACAAGGATATGTGGCTCAGTGTGGTCAAGTTCCTTCCAAAGAACCCTGCACTTGGTCTGCG  
 TGGACATGCCAGGACATGAGGGCACCCGCTCCTCCCTGGATGACCTGTCCATAGATG  
 GGCAAGTTAAGAGGATACACCAGTTTGTAGAATGCCTGAAGCTGAACAAAAACCTTTCC  
 ACCTGGTAGGCACCTCCATGGGTGGCCAGGTGGCTGGGGTGTATGCTGCTTACTACCCAT  
 CGGATGTCTCCAGCCTGTGTCTCGTGTCTGCTGGCCTGCAGTACTCAACTGACAATC  
 AATTTGTACAACGGCTCAAAGAAGTGCAGGGCTCTGCCGCGTGGAGAAGATTCCCTTGA  
 TCCCGTCTACCCAGAAGAGATGAGTAAAATGCTTCAAGTCTGCTCCTATGTCCGCTTCA  
 AGGTGCCCCAGCAGATCCTGCAAGGCCTTGTGATGTCCGCATCCCTCATAACAACCTTCT  
 ACCGAAAGTTGTTTTGGAAATCGTCAGTGAGAAGTCCAGATACTCTCCTCATCAGAACA  
 TGGACAAGATCAAGTTCGACGCAGATCATCTGGGGGAAACAAGACCAGGTGCTGGATG  
 TGTCTGGGGCAGACATGTTGGCCAAGTCAATTGCCAACTGCCAGGTGGAGCTTCTGGAAA  
 ACTGTGGGCACTCAGTAGTGATGGAAAGACCCAGGAAGACAGCCAAGCTCATAATCGACT  
 TTTTAGCTTCTGTGCACAACACAGACAACAAGAAGCTGGACTGAGGCCCCGACTGCA  
 GCCTGCATTCTGCACACAGCATCTGCTCCCATCCCCAAGTCTGACGCAGCCACCACTCT  
 CAGGGATCCTGCCCAAATGCGGTGGAGCGCCAGTGACCCTGAGGAAGCCCGTCCCTTA  
 TCCCTGGTATCCACGGTTCCTCCAGAGCTTTGGGGACCACGCGAAAACCTCCAAGATATTT  
 TTCACAAAATAGAAACTCATATGGAACAAAATAAGAAACCCAGCCATGAAATCTACCAT  
 GAAGTCTTCAAGTTCATGTCACTGAGAAGCTTGTGCAAAGCAGCCACCTTGGACCATAAT  
 TAAATCAAGGACATTTTCTTTGAGACATTCCTTATAGTTGGAGACTCAAGATATTTTTGT  
 TGCATCAGGTGATTCCCTTGCATGGGCAGTGGCTTTTATAGGAGCATTAGTCTCATTCT  
 GCTGAACCCTGTTGTTTAGGTCTAATTTAAGTTTTACATAGAGACCCATGTATGACTGCA  
 GCCATTGGCTGCAAGACCAGGGAGGAAAGTGGCAAGCTGTAGAAAATGTTTACACGCAT  
 GGAGGGGCAATTGCTCTAGCCCTCAGAGCGTCCGGAGCAGCAGGTACATGGGTGGGAGGT  
 TCATTAGCACCACCAGTCAGGTATGTTCTGAGTGAACCCACAGCAGTGCAGAATGAG  
 CAGCTGGCAGGGTGGGTTTCTAGGAATAATTTATTTTTTAAAAATAGGCCTAATAAA  
 GCAATAATGTTCTAGACATCTGTCTAAGTAATCAGACTCAGGTTCCACACACAAGCAACA  
 ACTCGTGGGCCTTTTTCTATTTCAATGTGCTACTAAGAACCCTTGGATGTAACATACTA  
 GTTAGTTAATGAATCTGTGAATCTGTGAAGAGTAATGTGATTGAAAATAAGTCTAAAC  
 AGCTGTAAAAGTGACCACAATGACATGAAATAAATTTAATAAGTCTAGATCAGCAAAAAA  
 AAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_020676

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_020676.4](#), [NP\\_065727.3](#)

**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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.