

## Product datasheet for **RC200915**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD6 (NM_020676) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABHD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200915 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCTTGATGTGGTTAACATGTTTGTGATTGCGGGCGGCACGCTGGCCATCCCAATCCTGGCATTTC  
TGGCTTCATTTCTTCTGTGGCCTTCAGCACTGATAAGAATCTATTATTGGTACTGGCGGAGGACATTGGG  
CATGCAAGTCCGCTATGTTACCATGAAGACTATCAGTTCTGTTATTCTCCGGGCGAGGCCTGGGCAC  
AAACCTCCATCCTCATGCTCCACGGATTCTCTGCCACAAGGATATGTGGCTCAGTGTGGTCAAGTTCC  
TTCCAAAGAACCTGCACCTGGTCTGCGTGGACATGCCAGGACATGAGGGCACCACCCGCTCCTCCCTGGA  
TGACCTGTCCATAGATGGCAAGTTAAGAGGATACACCAGTTTGTAGAATGCCTGAAGCTGAACAAAAA  
CCTTCCACCTGGTAGGCACCTCCATGGGTGGCCAGGTGGCTGGGTGTATGCTGCTTACTACCCATCGG  
ATGTCTCCAGCCTGTGTCTCGTGTGCCTGCTGGCCTGCAGTACTCAACTGACAATCAATTTGTACAACG  
GCTCAAAGAACTGCAGGGCTCTGCCGCGTGGAGAAGATCCCTTGATCCCGTCTACCCAGAAGAGATG  
AGTGAAATGCTTCAGCTCTGCTCCTATGTCCGCTTCAAGGTGCCCGCAGCAGATCCTGCAAGGCCTTGTCG  
ATGTCCGCATCCCTCATAACAATTCTACCGAAAGTTGTTTTGGAAATCGTCAGTGAGAAGTCCAGATA  
CTCTCTCCATCAGAACATGGACAAGATCAAGTTCCGACGCAGATCATCTGGGGGAAACAAGACCAGGTG  
CTGGATGTGTCTGGGGCAGACATGTTGGCCAAGTCAATTGCCAACTGCCAGGTGGAGCTTCTGGAAAAT  
GTGGGCACCTCAGTAGTGATGGAAAGACCCAGGAAGACAGCCAAGCTCATAATCGACTTTTGTAGCTTCTGT  
GCACAACACAGACAACAACAAGAAGCTGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC200915 protein sequence  
Red=Cloning site Green=Tags(s)

MDLDVVNMFVIAGGTLAIPILAFVASFLLWPSALIRIYYWYWRRTLGMQVRYVHHEDYQFCYSFRGRPGH  
 KPSILMLHGFSAHKDMWLSVVKFLPKNLHLVCVDMPGHEGTRRSSLDDLSDGQVKRIHQFVECLKLNKK  
 PFHLVGTSMGGQVAGVYAAAYPSDVSSLCLVCPAGLQYSTDNQFVQRLKELQGSAAVEKIPLIPSTPEEM  
 SEMLQLCSYVRFKVPQQILQGLVDVRIPHNPFYRKLFLIEIVSEKSRYSLHQNMMDKIKVPTQIIWKGQDQV  
 LDVSGADMLAKSIANCQVELLENCGHSVVMERPRKTAKLIIDFLASVHNTDNNKKLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6385\\_d01.zip](https://cdn.origene.com/chromatograms/mk6385_d01.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_020676

**ORF Size:** 1011 bp

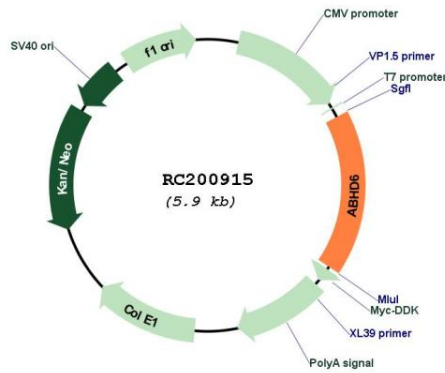
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone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

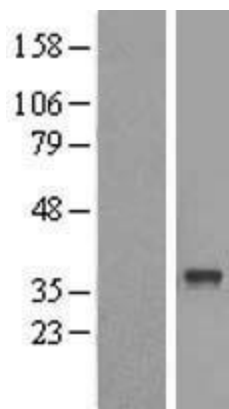
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_020676.6</a>
<b>RefSeq Size:</b>	2413 bp
<b>RefSeq ORF:</b>	1014 bp
<b>Locus ID:</b>	57406
<b>UniProt ID:</b>	<a href="#">Q9BV23</a>
<b>Cytogenetics:</b>	3p14.3
<b>Domains:</b>	abhydrolase
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	38.3 kDa
<b>Gene Summary:</b>	<p>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).</p> <p>[UniProtKB/Swiss-Prot Function]</p>

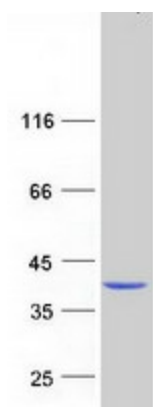
Product images:



Circular map for RC200915



Western blot validation of overexpression lysate (Cat# [LY412310]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200915 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ABHD6 protein (Cat# [TP300915]). The protein was produced from HEK293T cells transfected with ABHD6 cDNA clone (Cat# RC200915) using MegaTran 2.0 (Cat# [TT210002]).