

## Product datasheet for **RC205260**

### **ABHD2 (NM\_007011) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | ABHD2 (NM_007011) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | ABHD2                                    |
| Synonyms:                 | HS1-2; LABH2; PHPS1-2                    |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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ORF Nucleotide  
Sequence:

>RC205260 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAATGCCATGTCTGGAGACTCCCGAAGCTCCAGCCGTGTTTGGAGTGAAGCTGGCTGCAGTGGCTG  
CTGTGCTGTACGTGATCGTCCGGTGTGTTAACCTGAAGAGCCCCACGCCACCTGACCTCTACTTCCA  
GGACTCGGGGCTCTCACGCTTCTGCTCAAGTCTGTCTCTTCTGACCAAAGAATACATTCCACCGTTG  
ATCTGGGGGAAAAGTGGACACATCCAGACAGCCTTGATGGGAAGATGGGAAGGGTGAAGTGCACATC  
CTTATGGGCACCGAAGTTCATCACTATGTCTGATGGAGCCACTTCTACATTCGACCTCTTCGAGCCCTT  
GGCTGAGCACTGTGTGGAGATGATACCCATGGTCACTCTGCCCTGGAATTGCCAATCACAGCGAGAAG  
CAATACATCCGCACTTTCGTTGACTACGCCAGAAAAATGGCTATCGGTGCGCCGTGCTGAACCACCTGG  
GTGCCCTGCCAACATTGAATTGACCTCGCCACGCATGTTACCTATGGTGCACGTGGGAATTTGGAGC  
CATGGTGAAGTACATCAAGAAGACATATCCCTGACCCAGCTGGTCTGTCGTGGGCTTCAGCTGGGTGGT  
AACATTGTGTGCAAACTTGGGGGAGACTCAGGCAAACCAAGAGAAGGTCTGTGCTGCGTCAGCGGTG  
GCCAGGGGTACAGTGCCTGAGGGCCCAGGAAACCTTCATGCAATGGGATCAGTGCACGCGGTTCTACAA  
CTTCTCATGGCTGACAACATGAAGAAGATCATCTCTCGCACAGGCAAGCTCTTTTTGGAGACCATGTT  
AAGAAACCCAGAGCCTGGAAGACACGGACTTGAGCCGGCTCTACACAGCAACATCCCTGATGCAGATTG  
ATGACAATGTGATGAGGAAGTTTACGGCTATAACTCCCTGAAGGAATACTATGAGGAAGAAAGTTGCAT  
GCGGTACCTGCACAGGATTTATGTTCTCTCATGCTGGTAAATGCAGTGCAGTCCGTTGGTGCATGAA  
AGTCTTCTAACCATTCAAAATCTTTTCAGAGAAACGAGAGAAGTGCATGTTTGTGCTGCCTCTGCATG  
GGGGCAGCTGGGCTTCTTTGAGGGCTCTGTGCTGTTCCCGAGCCCTGACATGGATGGATAAGCTGGT  
GGTGGAGTACGCCAACGCCATTTGCCAATGGGAGCGTAACAAGTGCAGTCTCTGACACGGAGCAGGTG  
GAGGCCGACTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>RC205260 protein sequence  
Red=Cloning site Green=Tags(s)

MNAMLETPELPAVFDGVKLAAVAVALYIVRCLNLKSPTAPPDL YFQDGLSRFLKSCPLL TKEYIPPL  
IWGKSGHIQTAL YGKMGRVRSPPHYGHRKF ITMSDGATSTFDL FEPLAEHCVDGDDITMVICPGIANHSEK  
QYIRTFVDYAQKNGYRCAVLNHLGALPNIEL TSPRMFTYGCTWEFGAMVNYIKKTYPLTQLVVVGFSLGG  
NIVCKYLGETQANQEKVLCVSVQGYALRAQETFMQWDQCQRFYNFLMADNMKKIILSHRQALFGDHV  
KKPQSLIEDTDL SRLYTATSLMQIDDNVMRKFHGYNSLKEYEYESCMRYLHRIYVPLMLVNAADDPLVHE  
SLLTIPKSLSEKRENVFVLP LHGGHLGFFEGSVL FPEPLTWMDKL VVEYANAICQWERNKLQCSDTQV  
EADLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Chromatograms:

[https://cdn.origene.com/chromatograms/mk6028\\_a01.zip](https://cdn.origene.com/chromatograms/mk6028_a01.zip)

## Restriction Sites:

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_007011

**ORF Size:** 1275 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\\_007011.2](#)

**RefSeq Size:** 9159 bp

**RefSeq ORF:** 1278 bp

**Locus ID:** 11057

**UniProt ID:** [P08910](#)

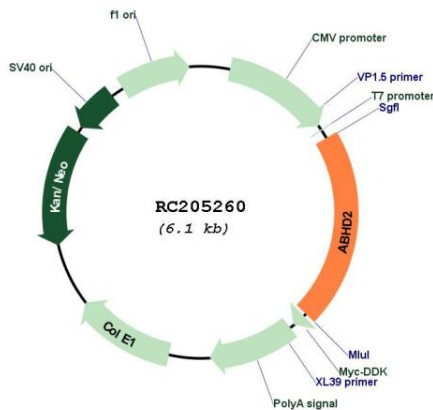
**Cytogenetics:** 15q26.1

**Domains:** abhydrolase

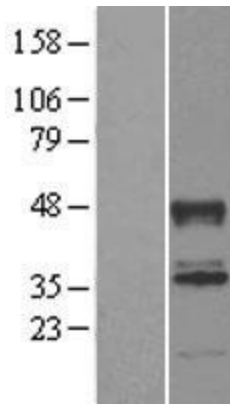
**MW:** 48.3 kDa

**Gene Summary:** This gene encodes a protein containing an alpha/beta hydrolase fold, which is a catalytic domain found in a wide range of enzymes. The encoded protein is an acylglycerol lipase that catalyzes the hydrolysis of endocannabinoid arachidonoylglycerol from the cell membrane. This leads to activation of the sperm calcium channel CatSper, which results in sperm activation. Alternative splicing of this gene results in two transcript variants encoding the same protein. [provided by RefSeq, Jan 2017]

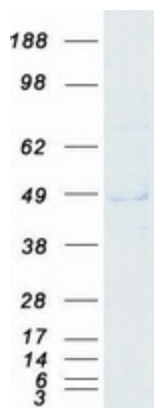
**Product images:**



Circular map for RC205260



Western blot validation of overexpression lysate (Cat# [LY402075]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205260 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ABHD2 protein (Cat# [TP305260]). The protein was produced from HEK293T cells transfected with ABHD2 cDNA clone (Cat# RC205260) using MegaTran 2.0 (Cat# [TT210002]).