

## Product datasheet for **MC202088**

### Abhd2 (NM\_018811) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abhd2 (NM_018811) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Abhd2
Synonyms:	2210009N18Rik; Labh-2; LABH2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC027098 sequence for NM\_018811  
 ACCGGACTCCGGGCGGGTTGGACTGCTGGAGTCAATGAGAGAAGCTTTTAGGTTAATTTGAATATAAGAT  
 CAGATCTGATTGGCCACCTGGACACCCCTTCAAGGAAAGCCCGTATTCTCCGAGAGAGGAATAAGCGAC  
 ATAGATCAAGATGAATGCCATGCTAGAGACCCCGAGCTCCCCGCGTGTGGATGGGGTGAAGCTGGCT  
 GCCGTAGCTGCCGTTCTCTACGTATCGTGCCTGTTTGAACCTGAAGAGCCCTACTGCCCTCTGACC  
 TCTACTCCAGGACTCCGGGCTCTCACGTTTCTGTCAAATCCTGTCTTCTGACCAAGAATACAT  
 TCCACCCTGATCTGGGGAAAAGCGGACATATCCAGACAGCCTTGTATGGGAAGATGGGGAGGGTGAGG  
 TCACCACACCCTTACGGGCACCGCAAGTTCATCACCATGTCGGATGGTGCCACTTCTACCTTCGACCTCT  
 TCGAGCCCTGGCTGAGCACTGTGTTGGAGATGACATCACCATGGTCATCTGTCCTGGAATTGCCAACCA  
 CAGCGAGAAGCAGTATATCCGAACCTTCGTTGACTATGCCAGAAAAATGGCTACCGGTGCGCAGTGCTA  
 AACCACTGGGAGCCCTCCCAACATTGAGCTGACCTCCCAAGAAATGTTACCTATGGCTGCACGTGGG  
 AATTTGGAGCCATGGTGAACATCAAGAGGACATATCCCCAGACCCAGCTGGTCGTCGTGGGCTTCAG  
 CCTGGGTGGAACATCGTGTGCAAATACTGGGGGAGACGAGGCAAACCAGGAAAAGGCTCTGTGTGT  
 GTCAGTGTGTCCAGGGTACAGCGCACTGAGGGCCAGGAGACCTTCATGCAGTGGGACCAGTCCCGCA  
 GGTTCACAACCTCCTCATGGCCGACAACATGAAGAAGATCATCTGTCTCACAGACAAGCTCTCTTTGG  
 AGACCACGTTAAGAAACCCAGAGCCTGGAGGACACGGACTTGAGCCGGCTGTACACAGCAACATCCCTG  
 ATGCAGATTGATGACAATGTGATGAGAAAGTTCATGGCTATAATTCCCTGAAGGAATACTATGAGGAAG  
 AGAGCTGCATGAGGTACCTGCACAGGATATATGTGCCTCTCATGTGTTAATGCAGCTGACGACCCCTT  
 GGTGCACGAAAGCCTTCTAACCAATCCAAAGTCTCTCTCAGAGAAACGGGAGAATGTCATGTTCTGTGCTG  
 CCTCTGCATGGGGCCACCTGGGCTTCTTCGAGGGCTCCGTGCTGTTCCCGAGCCGCTGACATGGATGG  
 ATAAGCTGGTAGTGGAGTATGCCAATGCCATTTGCCAATGGGAAAGGAATAAGTCCCAGTGTCTCAGACAC  
 GGAGCAGATGGAGGCCGAGTTGGAATGAGTCTCTGGACTCGGCGTGTCTCAGCGGCCCTCTCTGGAAC  
 CCACGTCCTTTGACGGCTGTTTCAGGCTCTCCAGTGTGACCTGGATCTGACCTCATACCATCAGTGGGGGG  
 TTACCCATCATGCAACCTGTCTCAAGTAGCGGGCTCTCCCTGGGAGCTCCAGGCTATTTTTGTGCTTAGT  
 TACGGGTTTTCTCATTGCATCGTTAGCCATGGTGACAAGCTACAAGATTCTCACCTTCTGTCCAGTTT  
 CAGTATCTGATTGCTTTACGCTGGTTAACATCTAGTTTTCTAGTAAGGAGCGAGTCTGAACTATAGTT  
 TTGCTTTGCCAATCAAAGGCCTTTTCTGAGAACAGTGAAGGATATACGTCACCTGTGTATGGATGTATG  
 CGCCGTAAGTACCCACCAAGAAAGTACGATCCCTCGTGTGAGAAATTAAGCTTGGGAGTCT  
 GAGAACCTGGGCCTTCTGGCCTGAGTTTTGCCTGTGAAACAAAGGAAATCTCTGAATCAAAAAAAAA AAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_018811

**Insert Size:** 1278 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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: [BC027098](#), [AAH27098](#)

RefSeq Size: 1966 bp

RefSeq ORF: 1278 bp

Locus ID: 54608

UniProt ID: [Q9QXM0](#)

Cytogenetics: 7 D2

**Gene Summary:** Progesterone-dependent acylglycerol lipase that catalyzes hydrolysis of endocannabinoid arachidonoylglycerol (AG) from cell membrane. Acts as a progesterone receptor: progesterone-binding activates the acylglycerol lipase activity, mediating degradation of 1-arachidonoylglycerol (1AG) and 2-arachidonoylglycerol (2AG) to glycerol and arachidonic acid (AA). Also displays an ester hydrolase activity against acetyl ester, butanoate ester and hexadecanoate ester. Plays a key role in sperm capacitation in response to progesterone by mediating degradation of 2AG, an inhibitor of the sperm calcium channel CatSper, leading to calcium influx via CatSper and sperm activation (By similarity). Involved in acrosomal reaction (Probable). May also play a role in smooth muscle cells migration (PubMed:15721306). [UniProtKB/Swiss-Prot Function]