

## Product datasheet for SC110212

### ABHD2 (NM\_007011) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD2 (NM_007011) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABHD2
Synonyms:	HS1-2; LABH2; PHPS1-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110212 sequence for NM_007011 edited (data generated by NextGen Sequencing)

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ATGAATGCCATGCTGGAGACTCCCGAACTCCAGCCGTGTTTGTGGAGTGAAGCTGGCT
GCAGTGGCTGCTGTGCTGTACGTGATCGTCCGGTGTGTTGAACCTGAAGAGCCCCACAGCC
CCACCTGACCTCTACTTCCAGGACTCGGGGCTCTCACGCTTTCTGCTCAAGTCCCTGCCT
CTTCTGACCAAAGAATACATTCCACCGTTGATCTGGGGAAAAAGTGGACACATCCAGACA
GCCTTGTATGGGAAGATGGGAAGGGTGAGGTGCGCCACATCCTTATGGGCACCGGAAGTTC
ATCACTATGTCTGATGGAGCCACTTCTACATTGACCTCTTCGAGCCCTTGGCTGAGCAC
TGTGTTGGAGATGATATCACCATGGTCATCTGCCCTGGAATTGCCAATCACAGCGAGAAG
CAATACATCCGCACTTTGTTGACTACGCCAGAAAAATGGCTATCGGTGCGCCGTGCTG
AACCACCTGGGTGCCCTGCCAACATTGAATTGACCTCGCCACGCATGTTACCTATGGC
TGCACGTGGGAATTTGGAGCCATGGTGAACACTACAAGAAGACATATCCCTGACCCAG
CTGGTCGTCTGTTGGCTTACGCTGGGTGTAACATTGTGTGCAAATACTGGGGGAGACT
CAGGCAAACCAAGAGAAGGTCCTGTGCTGCGTCAGCGTGTGCCAGGGGTACAGTGCACCTG
AGGGCCCAGGAAACCTTCATGCAATGGGATCAGTGCCGGCGGTTCTACAACCTCCTCATG
GCTGACAACATGAAGAAGATCATCCTCTCGCACAGGCAAGCTCTTTTGGAGACCATGTT
AAGAAACCCAGAGCCTGGAAGACACGGACTTGAGCCGGCTCTACACAGCAACATCCCTG
ATGCAGATTGATGACAATGTGATGAGGAAGTTTACGGCTATAACTCCCTGAAGGAATAC
TATGAGGAAGAAAGTTGCATGCGGTACCTGCACAGGATTTATGTTCTCTCATGCTGGTT
AATGCAGCTGACGATCCGTTGGTGCATGAAAGTCTTCTAACCATTCAAAATCTCTTTCA
GAGAAACGAGAGAACGTCATGTTTGTGCTGCTCTGCATGGGGGCCACTTGGGCTCTTTT
GAGGGCTCTGTGCTGTTCCCGAGCCCCTGACATGGATGGATAAGCTGGTGGTGGAGTAC
GCCAACGCCATTTGCCAATGGGAGCGTAACAAGTTGCAGTGCTCTGACACGGAGCAGGTG
GAGGCCGACCTGGAGTGA

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Clone variation with respect to NM\_007011.7



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_007011 unedited</p> <pre>TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTCCGGCTGTATATCCA TGAGCGCCGCTGGCAGCCGGGAGCTGCAGGAACCAGACTGGGGGCGAGCTGAGCACCTG TAGTCAATCACACGCAGCTTTTAGGTTTGTGTTGAATAAGAGATCTGACCTGACCGGCCCA ACTGTACAACCTTCAAGGAAAATTCGTATTTGCAGTGGGAAGAATAAGTAACATTGATC AAGATGAATGCCATGCTGGAGACTCCCGAACTCCAGCCGTGTTTGATGGAGTGAAGCTG GCTGCAGTGGCTGCTGTGCTGTACGTGATCGTCCGGTGTGTTGAACCTGAAGAGCCCCACA GCCCCACCTGACCTCTACTTCCAGGACTCGGGGCTCTCACGCTTCTGCTCAAGTCTGT CCTCTTCTGACCAAAGAATACATTCCACCGTTGATCTGGGGGAAAAGTGACACATCCAG ACAGCCTTGTATGGGAAGATGGGAAGGGTGAGGTCCGCACATCCTTATGGGCACCGGAAG TTCATCACTATGTCTGATGGAGCCACTTCTACATTCGACCTCTTCGAGCCCTTGGCTGAG CACTGTGTTGGAGATGATATCACCATGGTCATCTGCCCTGGAATTTGCCATCACAGCGAG AAAGCATACATCCGCACCTTCGTTGACTACGCCAGAAAATGGCTATNCGTGCGCCGTGC TGAACACCTGGGTGCCCTGCCACATTGAATGACCTCGCCACGCATGTCACCTATGCTGC ACGTGGGAAAATTGGAGCATGGGTGACTACATCAAGAAGACATATCCCTGACCCACTGGTC GTCGTGGGCTTCANCCCTGGTGGTACATTGGTGAATACTTGGGGGAGACTCAGCAACCC ANAAAAGGTCTGTGCTGCGTAA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_007011 unedited</p> <pre>CTGTGGACCGCGCCCGTACTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TAAAGTATCCAGGCAATTTTACTCATAGTTCTGTTTAGTTCAGATAGCAACAGCTGATT GTTCAAAGTGCAGGGTTTTGGATATTCAAGTACCACAGGATCGGAGAAAAGGAGTACTT GAAACCTAGAGTTGCGTTTTTCACTTGAGAAGACACACTTTGGAAACACCTATCCAACAGA CTACAAATATAGGCTATTAATTAATAAATCTGGTTTCAAATAATACCCACTTAGGTTGG AAATATCTTTCTCCAAACTCAGATCCAACCTTTGAATTGTTTGGTATCAAAGGCAAAGTT AGAGGGACTTGGGTTTAAAACTAAAATTACAAGTGAAGTCTTAAAAAACAACCTCA AAACATCTTTTATCAAATAAGGGACACACACACAAAAGGCAAACGATGATATCTACA TGCTTAGACTGGGAGAGCAGCTCCCAGGCTCCCCTGGAGGGATGTTCTCTCAAACCTCAG TAAACTGAGTTTGCATTGAACCTTGAACCTGGTAGTGAGCTCAGCAATCTACCTGGTCC AAGTCCCCCATTTTAGAGGTGAAGAAAATTGAGTCCACAGCGACTTTGTCCAGGGTGAAA AGCAGAGCCAGGGCACAGCCAGATGCTCAGCCACCCAGAGCCCTTCTGAGAATCACAC TGTGGTCACACGACCCGAGCTCCATAACCGGCCTTGTGCTCTGGAGACCGTGGGAGCTA GAGGACACCCCTGATTATGAATTTCAATAAAACGAGCTGCAAGATGTTTCCAATTTAAGG GCGCTGTTGAACAGCATTTCAAATATTGCTTGGGATGAAGATCACTGGGGCACTGGGAA AAATTAATCCCAGGCTCTTCCAGACCCGTTGAATAAGCCTTCCCAGGGGAGGGACC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_007011
<b>Insert Size:</b>	3090 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_007011.4](#), [NP\\_008942.3](#)

**RefSeq Size:** 3519 bp

**RefSeq ORF:** 1278 bp

**Locus ID:** 11057

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

**Cytogenetics:** 15q26.1

**Domains:** abhydrolase

**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]  
Transcript Variant: This variant (1) has a longer 5' UTR, as compared to variant 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.