

## Product datasheet for **SC110214**

### ABHD2 (NM\_152924) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD2 (NM_152924) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABHD2
Synonyms:	HS1-2; LABH2; PPHS1-2
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152924, the custom clone sequence may differ by one or more nucleotides

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ATGAATGCCATGCTGGAGACTCCCGAACTCCAGCCGTGTTTGTGGAGTGAAGCTGGCTGCAGTGGCTG
CTGTGCTGTACGTGATCGTCCGGTGTGTTGAACCTGAAGAGCCCCACAGCCCCACCTGACCTCTACTTCCA
GGACTCGGGGCTCTCACGCTTCTGCTCAAGTCTGTCTCTTCTGACCAAAGAATACATTCCACCGTTG
ATCTGGGGGAAAAGTGGACACATCCAGACAGCCTTGTATGGGAAGATGGGAAGGGTGAGGTCGCCACATC
CTTATGGGCACCGGAAGTTCATCACTATGTCTGATGGAGCCACTTCTACATTCGACCTCTTCGAGCCCTT
GGCTGAGCACTGTGTTGGAGATGATATCACCATGGTCATCTGCCCTGGAATTGCCAATCACAGCGAGAAG
CAATACATCCGCACTTTGTTGACTACGCCAGAAAAATGGCTATCGGTGCGCCGTGCTGAACCACCTGG
GTGCCCTGCCCAACATTGAATTGACCTCGCCACGCATGTTACCTATGGCTGCACGTGGGAATTTGGAGC
CATGGTGAACATCAAGAAGACATATCCCTGACCCAGCTGGTCGTCGTGGGCTTCAGCCTGGGTGGT
AACATTGTGTGCAAACTTTGGGGGAGACTCAGGCAAACCAAGAGAAGGTCCTGTGCTGCCTCAGCGTGT
GCCAGGGGTACAGTGCAGTGGGGCCAGGAAACCTTCATGCAATGGGATCAGTCCGGCGGTTCTACAA
CTTCTCATGGCTGACAACATGAAGAAGATCATCCTCTCGCACAGGCAAGCTCTTTTGGAGACCATGTT
AAGAAACCCAGAGCCTGGAAGACACGGACTTGAGCCGGCTCTACACAGCAACATCCCTGATGCAGATTG
ATGACAATGTGATGAGGAAGTTTACGGCTATAACTCCCTGAAGGAATACTATGAGGAAGAAAGTTGCAT
GCGGTACCTGCACAGGATTTATGTTCTCTCATGCTGGTTAATGCAGCTGACGATCCGTTGGTGCATGAA
AGTCTTCTAACCATTTCCAAAATCTTTTCAGAGAAACGAGAGAACGTCATGTTTGTGCTGCCTCTGCATG
GGGGCCACTTGGGCTTCTTTGAGGGCTCTGTGCTGTTCCCGAGCCCTGACATGGATGGATAAGCTGGT
GGTGGAGTACGCCAACGCCATTTGCCAATGGGAGCGTAACAAGTTGCAGTGTCTGACACGGAGCAGGTG
GAGGCCGACCTGGAGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_152924 unedited NGGCTGTTACATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGAATCCA TGAGCGCCGCTGGCAGCCGGGAGCTGCAGGAACCAGACTGGGGGCGAGCTGAGCACCTG TAGTCAATCACACGCAGCTTTTAGGTTTGAATAAGAGATCTGACCTGACCGGCCCA ACTGTACAACCTTCAAGGAAAATTCGTATTTGCAGTGGGAAGAATAAGTAACATTGATC AAGATGAATGCCATGCTGGAGACTCCCGAACTCCAGCCGTGTTTGTATGGAGTGAAGCTG GCTGCAGTGGCTGCTGTGTACGTGATCGTCCGGTGTGAACTGAAGAGCCCCACA GCCCACCTGACCTCTACTTCCAGGACTCGGGGCTCTCACGCTTCTGCTCAAGTCTGT CCTCTTCTGACCAAAGAATACATTCCACCGTTGATCTGGGGGAAAAGTGGACACATCCAG ACAGCCTTGATGGGAAGATGGGAAGGGTGAAGTCCGCACATCCTTATGGGCACCGGAAG TTCATCACTATGTCTGATGGAGCCACTTCTACATTCGACCTTTCGAGCCCTTGGCTGAG CACTGTGTGGAGATGATATCACCATGGTCATCTGCCCTGGAATTGCCAATCACAGCGAG AAGCAATACATCCGCACTTTCGTTGACTACGCCAGAAAATGGCTATCGGTGCGCCGTG CTGAACCACCTGNGTGCCTGCCACATTGAATTGACCTGCCACGCATGTTACCTATG GCTGCACGTGGGGATTTGGAGCCATGGTGAACATCAAGAAGACATATCCCCTGACCC AGCTGGTCGTGCTGGCTTCAGCCTGGGTGGTACATTGTGTGNCAATACTTGNNGGGAG ACTCAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_152924
<b>Insert Size:</b>	4730 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).
<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>RefSeq:</b>	<u><a href="#">NM_152924.2</a></u> , <u><a href="#">NP_690888.1</a></u>
<b>RefSeq Size:</b>	8761 bp
<b>RefSeq ORF:</b>	1278 bp
<b>Locus ID:</b>	11057
<b>UniProt ID:</b>	<u><a href="#">P08910</a></u>
<b>Cytogenetics:</b>	15q26.1
<b>Domains:</b>	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 (2) lacks four consecutive exons within the 5' UTR, as compared to variant 1. Both variants encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.