

Product datasheet for **SC112859**

ABHD4 (NM_022060) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD4 (NM_022060) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABHD4
Synonyms:	ABH4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022060, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGATGATCTGGAGCAGCAGTCTCAAGGCTGGCTGAGTAGCTGGCTGCCACGTGGCGCCCACTT
CCATGTCTCAGCTGAAGAATGTGGAAGCCAGGATCCTCCAGTGTCTCCAGAATAAGTTCTGGCCAGATA
TGTATCCCTCCCAAACCAGAATAAGATCTGGACGGTGACTGTGAGCCCCGAGCAAACGACCCGACCCCC
TTGGTGATGGTGCATGGTTTTGGGGCGGGCGTGGGTCTCTGGATCCTCAACATGGACTCACTGAGTGCCC
GCCGCACACTGCACACCTTCGATCTGCTTGGCTTCGGGCGAAGCTCAAGGCCAGCATTCCAAGGGACCC
GGAGGGGGCTGAGGATGAGTTTGTGACATCGATAGAGACATGGCGGGAGACCATGGGGATCCCCAGCATG
ATCCTCCTGGGGCACAGTTTGGGAGGATCCTGGCCACTTCTTACTCAATCAAGTACCCTGATAGAGTTA
AACACCTCATCCTGGTGGACCCATGGGGCTTCCCTCCGACCAACTAACCCAGTGAGATCCGTGCACC
CCCAGCCTGGGTCAAAGCCGTGGCATCTGTCTAGGACGTTCCAATCCATTGGCTGTTCTTCGAGTAGCT
GGGCCCTGGGGCCTGGTCTGGTGCAGCGATTCCGGCCGACTTCAAACGCAAGTTTGCAGACTTCTTTG
AAGATGATACCATATCAGAGTATATTTACCACTGCAACGCACAGAATCCCAGTGGTGAGACAGCATTCAA
AGCCATGATGGAGTCCTTTGGCTGGGCCCGGCCCTATGCTGGAGCGAATTCAC TTGATTGCAAAAAGAT
GTGCCTATCACTATGATCTACGGGTCCGACACCTGGATAGATACCACTACGGGAAAAAAGGTGAAGATGC
AGCGGCCGGATTCTATGTCCGAGACATGGAGATTAAGGGTGCCTCCCACCATGTCTATGCTGACCAGCC
ACACATCTTCAATGCTGTGGTGGAGGAGATCTGCGACTCAGTTGATTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022060 unedited
 CCTATAGGGCGGCCGCGATTTCGGCACGAGGCAGGACCTGGCAAGGCTTGTTTACTATGGC
 CGATGATCTGGAGCAGCAGTCTCAAGGCTGGCTGAGTAGCTGGCTGCCACGTGGCGCCC
 CACTTCCATGTCTCAGCTGAAGAATGTGGAAGCCAGGATCCTCCAGTGTCTCCAGAATAA
 GTTCTGGCCAGATATGTATCCCTCCAAACCAGAATAAGATCTGGACGGTGACTGTGAG
 CCCCAGCAAAAACGACCCGACCCCTTGGTGATGGTGCCATNGGTTTTGGGGCCGGCGTG
 GNGTCTCTGGATCCTCAACATGGACTCACTGAGTGCCCGCCGCACACTGCACACCTNTCG
 ATCTGGCTTGGCTTCNGGCGAAGCTCAAGGCCAGCATTCCCAGGACCCCGNAGGNGGCT
 GAGGATGAANNNTGNGACATCGATGGAACATGGGCGGGAGACAATGGGGGGATCCCCAGC
 TGGATCCTTCGGGGCCAAAGTTGGGGAGGGATCCCGGGGCCCTTTTTTATCAAAAAGGG
 CCCCCGAAAGAGGAAAACACCCCTTCTGGGGGACCCCGGGGGTTTTCCCTTCGCC
 CCATTTACCCCGGGGGAAACGGGGCCCCCCCCCGTGAGAAAAAGCGGGGGTTTTG
 TTTAAGAAAACCCCTTGGGGTTTTTAAAAAAAAGGCCCGGGGGGGGCC
 CTTTTTGTGGAAAAAAATTCCGCGCGCGCTTAAACACCGGGGGGGGAACCTTTT
 TTTGAAGAAAACCCCTTGGGGTTTTTCTCCCCCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022060 unedited
 NGGTTTTTACTATGNACGCGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTACT
 CGTTTTCTTATTAATATAGNAAAAGGAGCCAGGCAGCTGGACCAGTAGTACAAAGCAC
 CAGGAGTAATACCATTCTGGTGAAGGGGATGGTTTTACAAAAGTGAAGGAGCAGGCAGG
 AGCCACCAGGTTCTGAGGCCAGGCCAGCCTACTGCCAGAACCCCTGAAACGGTCCCT
 GGGAAAAAGCTGACAGATGGGTCAGGGTGGATTGAGCTGGAAACCATGGGGACAGATGG
 CAGGGATAGAGGGTCATGCAGTGGGAACCCAGTGGCTGATAAGGACAGGGAACCTGT
 GGCTGGAGGCTCCCCATTGGGCCATGGGCAGGGCTTGACAGATGGCTCAGCTCTGGGG
 CAGGTAGAGAACTGCAGAGACTGATGGGCATGGAGAACCAGACATGGCCCTGGGGCTG
 AAGGGCTTTCCACCCTCTTTCACACTGGAGCCACCTTTGCTCTATACTACATATGGGG
 CTTTCAGGGCCCAAGGCACAGGGGAGGCTCAGAGGCCTCCAGTTGGGAGGAAGATGGGGCA
 AGGAAGGAAGCACTTGAGTGTCCCTAGCTTAGGCAGCCGGGGATGAGACACAGGCACGAC
 AACAGCACCCCGCATAGTGGGGCTAGAATGTGGGACAGGGACGGNCTTATCCTCGGCCA
 GTGACTAGGACCAGCCCATGGCAATGGTGCCTGTCTCAGCCTTAGCAAATCAAGTGTG
 CAACAAGCACAGGTGTGCGGCAGACCTGGGCTTAGCCTTACAGCTCTGCCAGAACTTGA
 ACCAGAGCTGATACCATGGTCCAGCCCTGTCTGCTTTGGCTGTTCTCTCTGTCA
 GTGAGGCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_022060

Insert Size:

2550 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:	<ol style="list-style-type: none">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:	<u>NM_022060.2</u> , <u>NP_071343.2</u>
RefSeq Size:	2543 bp
RefSeq ORF:	1029 bp
Locus ID:	63874
UniProt ID:	<u>Q8TB40</u>
Cytogenetics:	14q11.2
Domains:	abhydrolase
Protein Families:	Protease
Gene Summary:	Lysophospholipase selective for N-acyl phosphatidylethanolamine (NAPE). Contributes to the biosynthesis of N-acyl ethanolamines, including the endocannabinoid anandamide by hydrolyzing the sn-1 and sn-2 acyl chains from N-acyl phosphatidylethanolamine (NAPE) generating glycerophospho-N-acyl ethanolamine (GP-NAE), an intermediate for N-acyl ethanolamine biosynthesis. Hydrolyzes substrates bearing saturated, monounsaturated, polyunsaturated N-acyl chains. Shows no significant activity towards other lysophospholipids, including lysophosphatidylcholine, lysophosphatidylethanolamine and lysophosphatidylserine.[UniProtKB/Swiss-Prot Function]