

Product datasheet for **SC100450**

ABHD12 (NM_015600) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD12 (NM_015600) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABHD12
Synonyms:	ABHD12A; BEM46L2; C20orf22; dj965G21.2; hABHD12; PHARC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015600, the custom clone sequence may differ by one or more nucleotides

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ATGAGGAAGCGGACCGAGCCCGTCGCCTTGGAGCATGAGCGCTGCGCCGCGCGGGCTCGTCCCTCCG
GCTCGGCCGCGCGCGCTGGACCCGACTGCCGCTGAAGCAGAACCTACGCCTGACGGGCCGCGCGG
GGCTGAGCCGCGCTGCGCAGCCGACGCGGGAATGAAGCGGGCGCTGGGCAGGCGAAAGGGCGTGTGGTTG
CGCCTGAGGAAGATACTTTCTGTGTTTGGGGTTGTACATTGCCATTCCATTTCTATCAAACTATGTC
CTGGAATACAGGCCAACTGATTTTCTGAATTCGTAAGAGTCCCTATTTTCATTGATTTGAAAAAACC
ACAGGATCAAGGTTTGAATCACACGTGTAACACTACCTGCAGCCAGAGGAAGACGTGACCATTGGAGTC
TGGCACACCGTCCCTGCAGTCTGGTGAAGAACGCCAAAGCAAAGACCAGATGTGGTATGAGGATGCCT
TGGCTTCCAGCCACCCTATCATTCTGTACCTGCATGGGAACGCAGGTACCAGAGGAGGCGACCACCGCT
GGAGCTTTACAAGGTGCTGAGTTCCTTGGTTACCATGTGGTACCTTTGACTACAGAGGTTGGGGTGAC
TCAGTGGGAACGCCATCTGAGCGGGCATGACCTATGACGCACTCCACGTTTTGACTGGATCAAAGCAA
GAAGTGGTGACAACCCCGTGTACATCTGGGGCCACTCTCTGGGCACTGGCGTGGCGACAAATCTGGTGCG
GCGCCTCTGTGAGCGAGAGACGCCTCCAGATGCCCTTATATTGGAATCTCCATTTACTAATATCCGCGAA
GAAGCTAAGAGCCATCCATTTTCAGTGATATATCGATACTTCCCTGGGTTGACTGGTCTTCTCCTGATC
CTATTACAAGTAGTGAAATTAATTTGCAAATGATGAAAACGTGAAGCACATCTCCTGTCCCCTGCATC
CTGACGCTGAGGACGACCCGGTGGTCCCTTCCAGCTTGGCAGAAAGCTATAGCATCGCCGACCA
GCTCGAAGCTTCCGAGATTTCAAAGTTCAGTTTGTGCCCTTTCATTTCAGACCTTGCTACAGGCACAAAT
ACATTTACAAGAGCCCTGAGCTGCCACGGATACTGAGACCTCAGCAGGGCCAGGTTCCAGCCCAGATCC
CAGCATGTGGTCAGAGCTGGTGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_015600 unedited GGTGTTACATTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCGGGCTGTGA GCGGCGGCACTGCGGCGCAGGCCAGCGGGCGCCGTGCGCGGCTGGCCCTGTCGGCCGCGG GATGAGGAAGCGGACCGAGCCCGTCGCCTTGAGCATGAGCGCTGCGCCCGCGGGGCTC GTCCTCCTCCGGCTCGGCCGCGCGGCTGGACGCCACTGCCGCTGAAGCAGAACCT ACGCCTGACGGGCCCGCGGCGGCTGAGCCGCGCTGCGCAGCCGACGCGGGAATGAAGCG GGCGTTGGCAGGCGAAAGGGCGTGTGGTTGCGCCTGAGGAAGATACTTTTCTGTGTTTT GGGTTGTACATTGCCATTCCATTTCTCATCAAATATGTCCTGGAATACAGGCCAACT GATTTTCTGAATTTCTGAAGAGTTCCTATTTTATTGATTTGAAAAACACAGGATCA AGGTTTGAATCACACGTGTAACACTACTACCTGCAGCCAGAGGAAGACGTGACCATTGGAGT CTGGCACACCGTCCCTGCAGTCTGGTGAAGAACGCCAAGGCAAAGACCAGATGTGGTA TGAGGATGCCTTGGCTTCCAGCCACCCTATCATTCTGTACCTGCATGGGAACGCAGGTAC CAGAGGAGGCGACCACCGCTGGAGCTTACAGGTGCTGAGTTCCTTGGTTACCATGTG GTCACCTTTGACTACAGAGGTTGGGTGACTCAGTGGAAACGCCATCTGAGCGGGGCATG ACCTATGACGCACTCCACGTTTTTACTGGATCAAAGCAAGAAGTGGTGANCCCCGTG TACATCTGGGCGCACTCTCTGGGCACTGGCGTGCGACAATCTGGTGGCGCCCTCTGT GAGCGAGAGACN
Restriction Sites:	NotI-NotI
ACCN:	NM_015600
Insert Size:	1750 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:	NM_015600.2 , NP_056415.1
RefSeq Size:	1751 bp
RefSeq ORF:	1215 bp
Locus ID:	26090
UniProt ID:	Q8N2K0
Cytogenetics:	20p11.21
Protein Families:	Protease, Transmembrane

Gene Summary:

This gene encodes an enzyme that catalyzes the hydrolysis of 2-arachidonoyl glycerol (2-AG), the main endocannabinoid lipid transmitter that acts on cannabinoid receptors, CB1 and CB2. The endocannabinoid system is involved in a wide range of physiological processes, including neurotransmission, mood, appetite, pain appreciation, addiction behavior, and inflammation. Mutations in this gene are associated with the neurodegenerative disease, PHARC (polyneuropathy, hearing loss, ataxia, retinitis pigmentosa, and cataract), resulting from an inborn error of endocannabinoid metabolism. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Jan 2011]

Transcript Variant: This variant (2) uses an alternate 3' terminal exon compared to variant 1, resulting in a longer isoform (b) with a distinct C-terminus compared to isoform a.