

## Product datasheet for **SC311263**

### ABHD12 (NM\_001042472) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ABHD12 (NM\_001042472) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ABHD12  
**Synonyms:** ABHD12A; BEM46L2; C20orf22; dj965G21.2; hABHD12; PHARC  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001042472 edited  
ATGAGGAAGCGGACCGAGCCCGTCGCCTTGGAGCATGAGCGCTGCGCCGCGCGGGCTCG  
TCCTCCTCCGGCTCGGCCGCGCGGCTGGACGCCACTGCCGCCTGAAGCAGAACCTA  
CGCCTGACGGGCCCGCGCGGCTGAGCCGCGCTGCGCAGCCGACGCGGAATGAAGCGG  
GCGCTGGCAGGCGAAAGGGCGTGTGGTTGCGCCTGAGGAAGATACTTTTCTGTGTTTTG  
GGTGTGACATTGCCATTCCATTCTCATCAAATATGTCCTGGAATACAGGCCAAACTG  
ATTTTCTGAATTCGTAAGAGTTCCTATTTTATTGATTTGAAAAACACAGGATCAA  
GGTTTGAATCACACGTGTAATACTACCTGCAGCCAGAGGAAGACGTGACCATTGGAGTC  
TGGCACACCGTCCCTGCAGTCTGGTGAAGAACGCCAAAGCAAAGACCAGATGTGGTAT  
GAGGATGCCTTGGCTTCCAGCCACCTATCATTCTGTACCTGCATGGGAACGCAGGTACC  
AGAGGAGGCGACCACCGGTGGAGCTTTACAAGGTGCTGAGTTCCTTGGTTACCATGTG  
GTCACCTTTGACTACAGAGGTTGGGTGACTCAGTGGGAACGCCATCTGAGCGGGGCATG  
ACCTATGACGCACTCCACGTTTTTACTGGATCAAAGCAAGAAGTGGTGACAACCCCGTG  
TACATCTGGGGCACTCTCTGGGCACTGGCGTGGCGACAAATCTGGTGGCGCCCTCTGT  
GAGCGAGAGACGCTCCAGATGCCCTTATATTGGAATCTCCATCACTAAATATCCGTGAA  
GAAGCTAAGAGCCATCCATTTTCAGTGATATATCGATACTTCCCTGGGTTTACTGGTTC  
TTCCTTGATCCTATTACAAGTAGTGAATTAATTTGCAATGATGAAAACGTGAAGCAC  
ATCTCCTGTCCCCTGCTCATCTGCACGCTGAGGACGACCCGGTGGTGCCTTCCAGCTT  
GGCAGAAAAGCTCTATAGCATCGCCGACCCAGCTCGAAGCTTCCGAGATTTCAAAGTTCAG  
TTTGTGCCCTTTTATTACAGACCTTGGCTACAGGCACAAATACATTTACAAGAGCCCTGAG  
CTGCCACGGATACTGAGGGAATTCTGGGGAAGTCGGAGCCTGAGCACCAAGCACTGA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001042472  
**Insert Size:** 1200 bp



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<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001042472.1</a></u> , <u><a href="#">NP_001035937.1</a></u>
<b>RefSeq Size:</b>	1983 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	26090
<b>UniProt ID:</b>	<u><a href="#">Q8N2K0</a></u>
<b>Cytogenetics:</b>	20p11.21
<b>Protein Families:</b>	Protease, Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript and encodes the shorter isoform (a).</p>