

## Product datasheet for **SC300243**

### ABH2 (ALKBH2) (NM\_001001655) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ABH2 (ALKBH2) (NM_001001655) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABH2
Synonyms:	ABH2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001001655 edited  
 GTCTTTCCACCACGAGGCCACCAGGGTGACTGCGGGATTCCGATCTGCGCCGGAGCTGC  
 GATGCTAGAGCACTTTGCCACCCACCCACGGACGTGTTCAGTGATATCAGAATTT  
 TCGTGTGGGTTTACCCGTGTTTAACTCTTTGCGTCTCGCTTCTGAATCGTATCCACTTG  
 AGCATCACTAGACTGATCTATTTTAACTGGTGGGGGGCAGCGAGGATGGACAGATTCC  
 TGGTGAAGGGGCTCAAGGGGGCTTTTGGGAAGCAGGAGGAGCAAGAGCCAAGTGGAG  
 AAGAGCCAGCTGTGTTGGGAGGAGACAAAGAAAGCACAAGGAAGAGGCCAGGAGAGAGG  
 CCCCAGGGAATGGAGGCCACTCAGCAGGCCCTAGCTGGCGGCACATTCGGGCTGAGGGCC  
 TGGACTGCAGTTACACAGTCTGTTTGGCAAAGCTGAGGCAGATGAGATTTTCAAGAGT  
 TGGAGAAAGAAGTAGAATATTTTACAGGAGCACTGGCCAGAGTCCAGGTATTCGGGAAGT  
 GGCACAGTGTGCCAGGAAGCAGGCAACGTATGGCGACGCTGGGCTGACCTACACATTTT  
 CAGGCCTCAGCTGTCTCAAAGCCCTGGATCCCAGTTCTAGAGCGCATCCGGGATCAGC  
 TCTCTGGGGTGACTGGACAGACCTTCACTTTGTGCTCATCAACAGGTATAAAGATGGCT  
 GTGACCACATCGGGGAGCACCGAGATGATGAAAGAGAAGTGGCCCTGGGAGCCCATTTG  
 CCTCTGTCTCCTTCGGTGCCTGCAGAGACTTTGTCTTCCGGCATAAGGATTCCCCTGGGA  
 AAAGCCCTCCAGGAGGGTGGCGGTGGTCAGGCTGCCGCTGGCCACGGGAGCTTACTAA  
 TGATGAACCACCCGACCAACACGCACTGGTACCACAGTCTTCCCGTGAGAAAGAAGGTT  
 TGGCTCCACGGGTGAATCTGACTTTTTCGTAATAATTTGCTTACTAAAAATAAAAAACATT  
 TTTAACAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001001655 unedited</p> <pre>TTGGTATACGACTCACTATAGGGCGGCNCGCAATTCGCACGAGGGGGTCTTTCCACCA CGAGGCCACCAGGGTACTGCGGGATTCCGATCTGCGCCGAGCTGCGATGCTAGAGCAC TCTTGCCACCCCAACCCACGGAGCTGTTGCAGTGATATCAGAATTTTTCGCGTGGGTTTA CCCGTGTTTAACCTCTTTGCGTCTCGTCTGAATCGTATCCACTTGAGCATCACTAGAC TGATCTATTTAACACTGGTGGGGGCAGCGAGGATGGACAGATTCTGGTAAAAGGGGC TCAAGGGGGCCTTTTGGGAAGCAGGAGGAGCAAGAGCCAACCTGGAGAAGAGCCAGCTGT GTTGGGAGGAGACAAAGAAAGCACAAGGAAGAGGCCAGGAGAGAGGCCCCAGGGAAATGG AGGCCACTCAGCAGGCCCTAGCTGGCGGCACATTCGGGCTGAGGGCTGGACTGCAGTTA CACAGTCTGTTTGGCAAAGCTGAGGCAGATGAGATTTTCCAAGAGTTGGAGAAAAGT AGAATATTTTACAGGAGCACTGGCCAGAGTCCAGGTATTCGGGGAAGTGGGCACAGTGTG CCCAGGAAGCAGGCAACGTATGGCGAGCTGGGCTGACCTACACATTTTCAGGCCTCACG CTGTCTCCAAGCCCTGGATCCCATTCTAAGCGCTNNCGNATCACGTTTTGGGGTGACTGG ACAACCTTCACTTTTGTATCACAGTATAAGAATGGCTGTGACACATCGGAGCCCGAAT GATGAAGAACTGGCCCTGGGAGCCATNGNCTCTGTNCCTTTGGGCTGAAAACCTGTCT TCGCATAGATTCCCGGAAGCTCGAGGGGGGGGGGGGGGGGNACCCTCTCTGCCAG GACTATTAAGAA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001001655 unedited</p> <pre>AAGACTTTTTGTTTTNTATTTCTAGTAGNCAAATTTTACGAAAGTCAGNATCACCCGTGG AGCCAGAACCTTCTTTCTCACGGGAAGACTGTGGTACCAGTGCCTGTTGGTGGGGTGGTT CATCATTAGTAAGCTCCCGTGGCCAGCGGCAGCCTGACCACCGCCACCCTCTGGAGGG GCTTTTCCACGGGAATCCTTATGCCGGAAGACAAAGTCTCTGCAGGCACCGAAGGAGAC AGAGGCAATGGGGCTCCCAGGGCCAGTTCTTTTCATCATCTCGGTGCTCCCCGATGTG GTCACAGCCATCTTTATACCTGTTGATGAGCACAAAGTTGAAGGTCTGTCCAGTACCCCC AGAGACGTGATCCCGGATGCGCTCTAGAAGTGGGATCCAGGGCTTTGGAGACAGCGTGAG GCCTGAAAATGTGTAGGTGAGCCAGCGTGCCTACGTTGCCTGCTTCTGGGCACACT GTGCCACTTCCCGAATACCTGGACTCTGGCCAGTGTCTCTGTAATAATTTCTACTTCTTT CTCCAACCTTTGGAAAATCTCATCTGCCTCAGCTTTGCCAAACAGGACTGTGTAAGTGA GTCCAGGCCCTCAGCCCCAATGTGCCGCCAGCTAGGGCTGCTGAGTGGCCTCCATTAC TGGGGCTCTCTCCTGGGCTCTTCTTGTGCTTTCTTTGTCTCCTCCCAACACACCTGG CTATTCTCAGTTTGGCTTTGCTCCTCCTGCTTCTCCTCAAAGGCCCTTGAGCCCTTT CATCAGGAATCTGTCCATCCTCGCTGCCCCCCACAGTGTAAAATGAATCAGTCTAGTG ATGCGTCACTGGGATCGATTCCAAATCTAGCACCAAAGAGTTAAACACGGTAAACCGCCC CC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001001655
<b>Insert Size:</b>	1000 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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>NM_001001655.1, NP_001001655.1</u>
<b>RefSeq Size:</b>	1051 bp
<b>RefSeq ORF:</b>	786 bp
<b>Locus ID:</b>	121642
<b>UniProt ID:</b>	<u>Q6NS38</u>
<b>Cytogenetics:</b>	12q24.11
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>The Escherichia coli AlkB protein protects against the cytotoxicity of methylating agents by repair of the specific DNA lesions generated in single-stranded DNA. ALKBH2 and ALKBH3 (MIM 610603) are E. coli AlkB homologs that catalyze the removal of 1-methyladenine and 3-methylcytosine (Duncan et al., 2002 [PubMed 12486230]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1-3 encode the same protein.</p>