

Product datasheet for **SC120570**

ALKBH3 (NM_139178) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALKBH3 (NM_139178) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALKBH3
Synonyms:	ABH3; DEPC-1; DEPC1; hABH3; PCA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_139178 edited

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ATGGAGGAAAAAAGACGGCGAGCCCGAGTTCAGGGAGCCTGGGCTGCCCTGTAAAAGC
CAGGCCATTGCTCAGCCAGCTACCACTGCTAAGAGCCATCTCCACCAGAAGCCTGGCCAG
ACCTGGAAGAACAAGAGCATCATCTCTGACAGAGAGTTTGTGTTCAAAGAACCTCAG
CAGGTAGTACGTAGAGCTCCTGAGCCACGAGTGATTGACAGAGAGGGTGTGTATGAAATC
AGCCTGTCACCCACAGGTGTATCTAGGGTCTGTTTGTATCCTGGCTTTGTTGACGTGAAA
GAAGCTGACTGGATATTGGAACAGCTTTGTCAAGATGTTCCCTGGAAACAGAGGACCGGC
ATCAAAGAGGATATAACTTATCAGCAACCAAGACTTACAGCATGGTATGGAGAACTTCT
TACACTTATTCAAGAATCACTATGGAACCAAATCCTCACTGGCACCTGTGCTGCGCACA
CTAAAGAACCGCATTGAAGAGAACACTGGCCACACCTTCAACTCCTTACTCTGCAATCTT
TATCGCAATGAGAAGGACAGCGTGGACTGGCACAGTGATGATGAACCCTCACTAGGGAGG
TGCCCCATTATTGCTTCACTAAGTTTTGGTGCCACACGCACATTTGAGATGAGAAAAGAG
CCACCACCAGAAGAGAATGGAGAGTACACATATGTGAAAAGAGTGAAGATACCCTTGGAT
CATGGGACCTTGTTAATCATGGAAGGAGCGACACAAGCTGACTGGCAGCATCGAGTGCC
AAAGAATACCACTCTAGAGAACCGAGAGTGAACCTGACCTTTCGGACAGTCTATCCAGAC
CCTCGAGGGGCACCCTGGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_139178 unedited
GGGGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGCGCGCC
CGGCTCCGCCCCGCAAGTGCCTTCTGACTTACTGCTGGGTGCGCGGGGCTGGGGGTGC
GAGTACCACCCCTGAAGTCTCTTCTGGGCGACCTCCGGGGCCTCATTCTAGGCCTCCTT
AAAGAGAAGGATCTAAATTAGGAAAAGGAAGTGCCCTTATCCACGACCAAGCTCTCCAC
CTGCGGAGCTCGCTTAGTCTGCACCTCAACCGTGCAGAAAGTGACTGCCCTGTTTACTGA
GGAAAAACTGGGCTCAGAAAAGATACCATGGAGTAGTTTAAAACAGGAACAAAATCTTCT
GAAAGCTCGGAGCAGAAGCCTTTTTGGTCAACATGGAGGAAAAAAGACGCGAGCCCGAG
TTCAGGGAGCCTGGGCTGCCCTGTAAAAGCCAGGCCATTGCTCAGCCAGCTACCACTG
CTAAGAGCCATCTCCACCAGAAGCCTGGCCAGACCTGGAAGAACAAGAGCATCATCTCT
CTGACAGAGAGTTTGTGTTCAAAGAACCTCAGCAGGTAGTACGTAGAGCTCCTGAGCCAC
GAGTGATTGACAGAGAGGGTGTGTATGAAATCAGCCTGTCACCCACAGGTGTATCTAGGG
TCTGTTTGTATCCTGGCTTTGTTGACGTGAAAGAAGCTGACTGGATATTGGAACAGCTTT
GTCAAGATGTTCCCTGGAACAGAGGACCGGCATCAAAGAGGATATAACTTATCAGCAAC
CAAGACTTACAGCATGGTATGGAGAACTCCTTACTATTCAAGAATCACTATGGAAC
CAAATNCTCACTGGCACCTGTGCTGCGCACACTAAAGAACCGCATTGAGAGAACACTG
GCCACACTTNCACCTTACTCTGCAATCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_139178 unedited
NNGGCCTTGACCTGCCCATANATTTAATTGCCTAAGNAGATAGCCATTTTGAGCTGTGGT
TAGGGATAACTGTTCCACAGTAGACCTATTACCAACATGAGTTGCTGGCTTTCATTTAA
TAGGACTCCAAGCTGGCAAACAAACCCACCATCTTCCAACAGCCACATCATGAGATCT
AGCAGCACCAGCCTCTTGAAGTGGCTTCTCAGTGAAGGTTTGTCCGTTTCAGTGAAGC
TTCTCTCTCAAAGCTCTGACGTACCAGGTGCCCTCGAGGGTCTGGATAGACTGTCCG
AAAGGTCAGGTTCACTCTCGTTCTCTAGAGTGGTATTCTTTGGGCACTCGATGCTGCCA
GTCAGCTTGTGTCGCTCCTTCCATGATTAACAAGTCCCATGATCCAAGGGTATCTTAC
TCTTCCACATATGTGACTCTCCATTCTTCTGGTGGTGGCTTCTTCTCATCTCAA
TGTGCGTGTGGCACAAAACCTAGTGAAGCAATAATGGGGCACCTCCCTAGTGAGGGTTC
ATCATCACTGTGCCAGTCCACGCTGTCTTCTCATTGCGATAAAGATTGCAGAGTAAGGA
GTTGAAGGTGTGGCCAGTGTCTTCAATGCGGTTCTTGTAGTGTGCGCAGCACAGGGTG
CCAGTGAGGATTTGGTCCATAGTGATTCTTGAATAAGTGAAGGAAGTTCTCCATACCA
TGCTGTAAGTCTTGGTTGCTGATAAGTTATATCCTCTTTGATGCCGGTCTCTGTTTCCA
GGGAACATCTTGACAAAGCTGTTCCCATATCCAGTCAGCTTCTTTCACGTCAACAAGCC
AGGATACAAACAGACCCTAGATACACCTGTGGGGTACAGGCTGATTTTCATAA

Restriction Sites:

NotI-NotI

ACCN:

NM_139178

Insert Size:

1500 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_139178.1 , NP_631917.1
RefSeq Size:	1520 bp
RefSeq ORF:	861 bp
Locus ID:	221120
UniProt ID:	Q96Q83
Cytogenetics:	11p11.2
Domains:	2OG-Fell_Oxy
Protein Families:	Druggable Genome
Gene Summary:	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 (MIM 610602) and ALKBH3 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]