

Product datasheet for SC105069

ALKBH7 (NM_032306) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALKBH7 (NM_032306) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALKBH7
Synonyms:	ABH7; SPATA11; UNQ6002
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC105069 sequence for NM_032306 edited (data generated by NextGen Sequencing) ATGGCCGGGACTGGGCTGCTGGCGCTGCGGACGCTGCCAGGGCCAGCTGGGTGCGAGGC TCGGGCCCTTCCGTGCTGAGCCGCCTGCAGGACGCGGCCGTGGTGCAGCCTGGCTTCCTG AGCACGGCAGAGGAGGAGACGCTGAGCCGAGAACTGGAGCCGAGCTGCGCCGCCCGC TACGAATACGATCACTGGGACGCGGCCATCCACGGCTTCCGAGAGACAGAGAAGTCGCGC TGGTCAGAAGCCAGCCGGGCCATCCTGCAGCGCTGCAGGCGGCCGCTTTGGCCCCGGC CAGACCCTGCTCTCCTCCGTGCACGTGCTGGACCTGGAAGCCCGCGGCTACATCAAGCCC CACGTGGACAGCATCAAGTTCTGCGGGGCCACCATCGCCGGCCTGTCTCTCTGTCTCC AGCGTTATGCGGCTGGTGCACACCCAGGAGCCGGGGAGTGGCTGGAACCTTTGCTGGAG CCGGGCTCCCTCTACATCCTTAGGGCTCAGCCGTTATGACTTCTCCCATGAGATCCTT CGGGATGAAGAGTCCTTCTTTGGGAACGCCAGATTCCCCGGGGCCGGCGCATCTCCGTG ATCTGCCGCTCCCTCCCTGAGGGCATGGGGCCAGGGGAGTCTGGACAGCCGCCCCAGCC TGCTGA Clone variation with respect to NM_032306.3 572 g=>a


[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032306 unedited CACGAGGGGATTATGGCCGGGACTGGGCTGCTGGCGCTGCGGACGCTGCCAGGGCCCAGC TGGGTGCGAGGCTCGGGCCCTTCCGTGCTGAGCCGCTGCAGGACGCGGCCGTGGTGCGG CCTGGCTTCTGAGCACGGCAGAGGAGGAGACGCTGAGCCGAGAACTGGAGCCCGAGCTG CGCCGCCCGCGCTACGAATACGATCACTGGGACGCGGCCATCCACGGCTTCCGAGAGACA GAGAAGTCGCGCTGGTCAGAAGCCAGCCGGGCCATCCTGCAGCGCTGCAGGCGGCCGCC TTTGGCCCGGCCAGACCCTGCTCTCTCCGTGCACGTGCTGGACCTGGAAGCCCGCGGC TACATCAAGCCCGACGTGGACAGCATCAAGTTCTGCGGGGCCACCATCGCCGGCCTGTCT CTCCTGTCTCCAGCGTTATGCGGCTGGTGACACCCAGGAGCCGGGGAGTGGGTGGAA CTCTTGCTGGAGCCGGGCTCCCTCTACATCCTTAGGGGCTCAGCCGTTATGACTTCTCC CATGAGATCCTTCGGGATGAAGAGTCCTTCTTTGGGGAACGCCAGATTCCCCGGGGCCGG CGCATCTCCGTGATCTGCCGCTCCCTCCCTGAGGCATGGGGCCAGGGGAGTCTGGACAG CCGCCCCCAGCCTGCTGACCCCCAGCTTT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032306 unedited TATGAACCCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTAGGCTGTCCATTCCCAACTTTATTCACAAATCTGGTGTCTGTAAAAAGC TGGGGGTCAACAGGCTGGGGGCGGCTGTCCAACTCCCCTGGCCCATGCCCTCAGGGAG GGAGCGGCAGATCACGGAGATGCCCCGGCCCCGGGAATCTGGCGTTCCCAAAGAAGGA CTCTTCATCCCGAAGGATCTCATGGGAAAAGTCATAACGGGCTGAGCCCCTAAGGATGTA AAGGGAGCCCGGCTCCAGCAAGAGTTCCAGCCACTCCCCGGCTCCTGGGTGTGCACCAG CCGCATAACGCTGGGAGACAGGAAAAACAGGCCGGCGATGGTGGCCCCGAAAATTGAT GCTGTCCACGTGGGGCTTGATGTAACCGCGGGCTTCCAGGTCCAGCACGTGCACGGAGGA AAGCAAGGTCTGCGCGGGGCCAAAGGCGCGCCCTGCACGCGCTGCAAGATGGCCCGGCT GGCTTCTGACCAGCGCGACTTCTGTCTCTCGGAAGCCGTGGATGGCCGCGTCCAGTG ATCGTATTCTAGCGGCGGCGCGCAGCTCGGGCTCCAGTTCTCGGCTCAACGTCTCCTC CTCTGGCGTGCTCAGGAAGCCAGGCCGACACGGCCGCGTCTGGAAGCGGGTCAAGC GGGAGGGCCCCGAGCTCGCACCAGCTGGGCCCTGGGAGCGTCCGCAACGCCAGCAACCC AATCCCGCCATAATTCCCTCGTGCCCAATTGCGGGCCGCCCTATAGGGAGTCGATTACAA AAATCTGACGGTTCACTAAAGAGGCCTGCTTAATAGACTCCACCGAACGCCTCACGCCA TTTGGTAACGGGCGGGGTATTCCAACCTTGAAAGCCCGTGATTGGGGCCCAACAACC CCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_032306
Insert Size:	800 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:

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_032306.2](#), [NP_115682.1](#)

RefSeq Size: 1110 bp

RefSeq ORF: 666 bp

Locus ID: 84266

UniProt ID: [Q9BT30](#)

Cytogenetics: 19p13.3

Gene Summary: May function as protein hydroxylase; can catalyze auto-hydroxylation at Leu-110 (in vitro), but this activity may be due to the absence of the true substrate (PubMed:25122757). Required to induce programmed necrosis in response to DNA damage caused by cytotoxic alkylating agents. Acts by triggering the collapse of mitochondrial membrane potential and loss of mitochondrial function that leads to energy depletion and cell death (PubMed:23666923). ALKBH7-mediated necrosis is probably required to prevent the accumulation of cells with DNA damage (PubMed:23666923). Does not display DNA demethylase activity (PubMed:23666923). Involved in fatty acid metabolism (By similarity).[UniProtKB/Swiss-Prot Function]