

Product datasheet for SC200061

ALKBH7 (NM_032306) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ALKBH7 (NM_032306) Human 3' UTR Clone
Symbol:	ALKBH7
Synonyms:	ABH7; SPATA11; UNQ6002
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_032306
Insert Size:	307 bp
Insert Sequence:	<p>>SC200061 3'UTR clone of NM_032306</p> <p>The sequence shown below is from the reference sequence of NM_032306. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAACGATCGCC
GAGTCTGGACAGCCGCCCCAGCCTGCTGACCCCAGCTTTCTACAGACACCAGATTGTGAATAAAGT
TGGGGAATGGACAGCCTAACTGGGACATTGCAGTGGCTGCTTGGTGGGCGGGATTTCAGGGGAACC
CAGGATGGCACTGGCCCATAGGGAGCTCCAGGTGTGGCTGGCTGGACACATGGTCAAAGTCACAAGGCC
GGGAGAGTGGTGTCTTTATTGCACTCACTGCTGGTCGCCCCAGCCCACTCCCCTCCTCGTTGTCTCTG
CATCCAGGTCTCCAATAAATAAGTCAGCCGA
ACGCGTAAGCGGCCGCGGCATCTAGATTGGAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_032306.4</u>


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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]
Locus ID:	84266
MW:	10.5