

Product datasheet for **SC215390**

ALKBH5 (NM_017758) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ALKBH5 (NM_017758) Human 3' UTR Clone
Symbol:	ALKBH5
Synonyms:	ABH5; OFOXD; OFOXD1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_017758
Insert Size:	1588 bp



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Insert Sequence:	>SC215390 3'UTR clone of NM_017758 The sequence shown below is from the reference sequence of NM_017758. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC GCCCGAAAGGTGAAGATGCGGCGGCACAGTCTACCCGCCCTCCTGGGAACCTGGCTCATCCTT ACGTAGTTGCCCTCCTTTGTTTTGAGGGTTTTGTTTTGTTTATTGGGGGTTTTGTTTTGTTT TTTGTGTTTTTTGATTCTATATATTTTCTTGTTTTGTTGCTGTTAGGGCTGAAGAATAGAATTGG CCAGGACCTAGGTTCTCATATTCTTGTTTCTCTGGATGGAAAGGCTGTTGGCATCAATAGGGGAC AGAGGCTGATGCTGGAGTGGCCAGTAGAGTGGTGGAGCAGAGCAGCCATCTTTAAGTGGGGCTGTAT CAGGCTGGGTTATTTAAAGCAACAAATGTTTTGGTTAAGAAAATTATTTGCTTTCAGTGTAATC TTCGAGTGTCTAAACAAAGTTCAGTCTTCTGCTCGCCCTTTCCCTCACTGATGTCTGCACTTGGTT GAGGTCTCCTGGAGCCTCACAGGCTCTGCTGTTCTCCACTTCTCACCTGCCATCCAGCCCTGCAAGCT CATGCAACACCCCTTCTCCTCCTGCGGCAGAGTTGTTCAAGTTGCCTGGGCAGGGGCTTAAACAGTG CCAGCCCTGCCATCCCAAAGCTATTGTTAAGCCCCCAGGCGTCTCCACCCACGCCCACTAGCCTGC CATGTCCACAGTTCCTTGGGCTGCTGAGGGGCTAGTGCAGTGGTCTGACCTCTCTTATCAAGAGCACA CTTCTTTGCTGGTTGCTCCTTTGAGCATATGCGTGTGATTATTTGGAACAGTTAGACTTGCCACGTTG GGTCAGTTTTAGAAATGTTTCTAGCTAGAGGGACTGGTGTCTTCCAAGTCTAGCATTTGGGGTATGG AAAATTGTTGTGGTGTGGTAGGGTTTTGTTTTCTTTTTGAGTTTTTTTTCCCTTTAGTCTCCT GGCTTTTTCTTTCCCTTCCCTTCTCCACTGGCCAGCTTGGGCCTCATCCTCATGTCATCCTTCTAGGA AGGCGCCTGCCCCATCTTGTCTGCCGCGCAGCATGCATCCAAGGCCAGAGCTCAGGCCTGCAGACTGGGC TGGTGCCTCCTCCGCTTCAGGGTATGGGAGTTGGTGAAGGGGCTTTCAAAAAATAAAGGAAAAAAG GTAAAGTCTTTGGTAGCTTCTATCCACTCAGATCCTGGAAGGCAGCAAGTTTTGTGGATCTAGATTCA TTAGGAATGTCTTCTGTGAGCCAGGCCAGGACCCGGGCTTGCCAAGAGCAGAGGCCCTCCAGCAACC AGGATACCACCACTTTGGGGGCTTTGTGTACAGAGGTCCGGTCTGAGACCTCATAGGCTGCAGAAATC TGGGGCAGCCACCATCAAGAAGCCCTCTCAGGGGCCAGAACTCCTTGGCAGCGTGATTTCTCAAGT CGGGACTGCATAATTAAGCAGTTGCAGTTTTATTTTTTTACAGCTTTTTTCCAAAAATGATTTGTA GTTGTGTGTGCAGCACTTCGCCCTGATATGTGTGCTCTACAATAAAAAACCAATCTAATATATTTTGAAA ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCGCCTTCTATGAAAGG
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_017758.4</u>

Summary:	Dioxygenase that demethylates RNA by oxidative demethylation: specifically demethylates N(6)-methyladenosine (m6A) RNA, the most prevalent internal modification of messenger RNA (mRNA) in higher eukaryotes (PubMed:23177736, PubMed:24489119, PubMed:24616105, PubMed:24778178). Can also demethylate N(6)-methyladenosine in single-stranded DNA (in vitro) (PubMed:24616105). Requires molecular oxygen, alpha-ketoglutarate and iron (PubMed:21264265, PubMed:23177736, PubMed:24489119, PubMed:24616105, PubMed:24778178). Demethylation of m6A mRNA affects mRNA processing and export (PubMed:23177736). Required for the late meiotic and haploid phases of spermatogenesis by mediating m6A demethylation in spermatocytes and round spermatids: m6A demethylation of target transcripts is required for correct splicing and the production of longer 3' UTR mRNAs in male germ cells (By similarity).[UniProtKB/Swiss-Prot Function]
Locus ID:	54890
MW:	58.8