

Product datasheet for SC127124

ALKBH5 (NM_017758) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALKBH5 (NM_017758) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALKBH5
Synonyms:	ABH5; OFOXD; OFOXD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127124 sequence for NM_017758 edited (data generated by NextGen Sequencing)

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ATGGCGCCGCCAGCGGCTACACGGACCTGCGTGAGAAGCTCAAGTCCATGACGTCCCGG
GACAACTATAAGGCGGGCAGCCGGGAGGCCGCCGCTGCCGCAGCCGCGTAGCCGCC
GCAGCCGCAGCCCGCTGCCGCGAACCTTACCCTGTGTCCGGGGCCAAGCGCAAGTAT
CAGGAGGACTCGGACCCCGAGCGCAGCGACTATGAGGAGCAGCAGCTGCAGAAGGAGGAG
GAGGCGCGCAAGGTGAAGAGCGGCATCCGCCAGATGCGCCTCTTCAGCCAGGACGAGTGC
GCCAAGATCGAGGCCCGCATTGACGAGGTGGTGTCCCGCGCTGAGAAGGGCCTGTACAAC
GAGCACACGGTGGACCGGCCCACTGCGCAACAAGTACTTCTTCGGCGAAGGCTACACT
TACGGCGCCAGCTGCAGAAGCGGGCCCGCCAGGAGCGCCTCTACCCGCCGGGGCAGC
GTGGACGAGATCCCCGAGTGGGTGCACCGCTGGTGTATCCAAAAGCTGGTGGAGCACCGC
GTCATCCCCGAGGGCTTCGTCAACAGCGCGTCATCAACGACTACCAGCCCGCGGCTGC
ATCGTGTCTCACGTGGACCCCATCCACATCTTCGAGCGCCCATCGTGTCCGTGTCTTTC
TTAGCGACTCTGCGCTGTGCTTCGGCTGCAAGTTCAGTTCAAGCCTATTCCGGGTGTCG
GAACCAGTGCTTCCCTGCCGTGCGCAGGGGAAGCGTGAAGTGTGCTCAGTGGATATGCT
GCTGATGAAATCACTCACTGCATACGGCCTCAGGACATCAAGGAGCGCCGAGCAGTCATC
ATCCTCAGGAAGACAAGATTAGATGCACCCCGTTGGAACAAGTCCCTGAGCAGCTCC
GTGTTACCACCCAGCTATGCTTCAGATCGCCTGTCAGGAAACAACAGGGACCCTGCTCTG
AAACCAAGCGGTCCACCGCAAGGCAGACCCTGATGCTGCCCCACAGGCCACGGATCCTG
GAGATGGACAAGGAAGAGAACCGCGCTCGGTGCTGCTGCCACACACCGCGGAGGGGT
AGCTTCAGCTCTGAGAACTACTGGCGAAGTCATACGAGTCTCAGAGGACTGCTCTGAG
GCAGCAGGCAGCCCTGCCGAAAGGTGAAGATGCGGCGGCACTGA

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Clone variation with respect to NM_017758.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_017758 unedited</p> <pre>GGATTTGTATACGACTTCTATAGGCGGCCGCAATTCGGCACGAGGGGCCCGGGGCGCG TCCCTTAGAGCCATGCCCGGCTGCCCCGCCCGCCCGGAGGACCCTAGAGCAGCGTCGT GGGGCCATGGCGGCCGCCAGCGGCTACACGGACTGCGTGAGAAAGTCAAGTCCATGAC GTCCCGGACAACATAAGGCGGGCATCTCGGGAGGCCCGCCGCTGCCGCAGCCGCCG TAGCCGCCGACGCCGAGCCGCCGCTGCCGCCAACCTTACCCTGTGTCCGGGGCCAAGC GCAAGTATCAGGAGGACTCGGACCCCGAGCCGACGCGACTATGAGGAGCAGCAGCTGCAGA AGGAGGAGGAGGCGCGCAAGGTGAAGAGCGGCATCCGCCAGATGCGCCTTTCAGCCAGG ACGAGTGCGCCAAGATCGAGGCCCGATTGACGAGGTGGTGTCCCGCGCTGAGAAGGGCC TGTACAACGAGCACACGGTGGACCGGGCCCACTGCGCAACAAGTACTTCTTCGGCGAAG GCTACACTTACGGCGCCAGCTGCAGAAGCGGGGCCCGCCAGGAGCGCCTCTACCCGC CGGGCGACGTGGACGAGATCCCCGAGTGGGTGCACCAGCTGGTGATCCAAAAGTGGTGG AGCACCGCGTCATCCTCGAGGGCTTCGTAACAGCGCCGTCATCAACGACTACCACGCC GCCGCTGCATCGTGTCTACGTGGACCCATCCCATCTTCGAGCGCCCATCGTGTCC GTGTCCTTCTTTACCGACTCTGCGCTGTGCTTCNGNTGCAAGNTCCAGTCAAGCCTATTC GGGTGTCGGAACCAAGTGCTTCCCTGCCGGGCCAAGGGAACCTGACTGGGCTACCCGG TAAGCTGCTGAGAAATCCTCATGCATACGCCTCAGAACTAAGGACGCCCGCAGACCTATC TTCAGG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_017758 unedited</p> <pre>NCCTTTAGCTCTGGACCGGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTAA AAATATTAGATTTGGTTTTTATTGTAGAGCACACATATCAGGGCGAAGTGTGCACACAC AACTACAATCATTTTTGGGAAAAAAGCTGTAATAAAAAATAAACTGCAACTGCTTTAAT TATGCAGTCCCGACTTGAGAAATCCACGCTGGCAAAGGAGTTCTGGCCCCGAGAGGGGC TTCTTGATGGTGGCTGCCCCAGATTTCTGCAGCCTATGAGGTCTCAGACCCGGACCTCTG TACACAAAGCCCCAAAGTGGTGGTATCCTGGTTGCTGGGAGGGCCTCTGCTCTTGGCAA GCCCGGTCTGGCTGGCTGACAAGAAGACATTCCTAATGAATCTAGATCCACAAAACC TTGCTGCCTTCCAGGATCTGAGTGGATAGAAGTACCAAAGACTTTACCTTTTTTTTTCTT ATTATTTTTTAAAGCCCTTACCAACTCCCATACCCTGAAGCGGAGGAGGCACCAGCC CAGTCTGCAGGCCTGAGCTCTGGCCTTGGATGCATGCTGCCGGCAGACAAGATGGGGCAG CGCCTTCTAGAAAGGATGACATGAGGATGAGGCCAAGCTGGCCAGTGGAGAAGGGAAG GGAAAGGAAAAAGCCAGGAGACTAAAGGGGAAAAAAAACCTCAAAAAGAACACAAAAAAC CCTACCACACACCACAACAATTTCCATACCCCAATGCTAGACTTGGCAGGACACCAGT CCCTCTAGCTAGAAACATTTCTAAACTGACCCAACGTGGCAAGTCTAACTGTTCCCAATA ATCACACGCATATTGCTCAAAAAGCCACCAGCAAAAAGTGTGCTCTTGATAAGAAAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_017758
Insert Size:	2800 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_017758.2](#), [NP_060228.2](#)

RefSeq Size: 2992 bp

RefSeq ORF: 1377 bp

Locus ID: 54890

UniProt ID: [Q6P6C2](#)

Cytogenetics: 17p11.2

Domains: 2OG-Fell_Oxy

Gene 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]