

Product datasheet for RN216557

Alkbh5 (NM_001191643) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alkbh5 (NM_001191643) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Alkbh5
Synonyms:	RGD1309496
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN216557 representing NM_001191643 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCGCCAGCGGCTACACGGACCTGCGTGAGAAGCTCAAGTCCATGACGTCCCGGGACAACACTACA
AGGCAGGCAGCCGGGAGGCCGCCCGCTGCAGCCGCTGCTGTGGCCGCCCGCGGCTGCCCGGCCGC
CGCCGAGCCTTACCCGGTGTCCGGGACCACCAACGGAAGTACCAGGAGGACTCAGACCCCGAACGCAGT
GACTACGAGGAGCATCAGTTGCAGAAGGAGGAGGAGCGCAAGGTGAAGAGCGGCATCCGGCAGATAC
GTCTTTCAGCCAGGATGAGTGTCCAAGATCGAGGCCCGCATCGACGAGGTGGTGTCCCGCTGAGAA
GGGCTGTACAACGAGCACACTGTGGATCGGGCCCCCTGCGCAACAAGTACTTCTTCGGCAGGGCTAC
ACGTACGGTGCCAGCTGCAAAAGCGCGGGCCAGGCCAGGAGCGCCTCTACCCGCCAGGGCAGCTCGATG
AGATCCCGAATGGGTGCATCAGCTGGTATCCAGAAGCTGGTGGAGCACCGCGTCATCCCCGAGGGCTT
CGTCAACAGCGCAGTCATCAACGACTACCAGCCTGGCGGCTGCATCGTATCTCACGTAGACCCCATCCAC
ATCTTCGAGCGCCGATCGTGTCCGTGTCTTTCTTTAGCGACTCGGCACTTTGCTTCGGTTGCAAGTTCC
AGTTCAAGCCATCCGGGTGTCCGAACCTGTGCTTCCCTGCCGTTGCCAGGGGAGCGTGACTGTGCT
CAGTGGGTATGCTGCTGATGAGTCACTCACTGCATACGGCCTCAGGACATCAAAGAACGCCGGGCGGTC
ATCATTCTCAGGAAGACAAGATTAGATGCACCAGATTGGAACAAAATCCCTGAGCAGCTCCACATTGC
CACCCAGCTATGCTTCAGATCGTCTGTACGAAACACCAGAGACCCTGCGCTGAAACCCAAAAGGTCCTCA
CCGCAAGGCAGACCCTGATGCTGCCATAGGCCCGGATCCTGGAATGGACAAAGAAGAAAACCGCGG
TCTGTGCTTCTGCCACACACCGCGGAGAGGGAGTTTTAGTCTGAGAACTATTGGCGAAGTCTATG
AGTCTCAGAAGATTGCCAGAGGCAGCCAGCAGCCCCACCCGAAGGTGAAGATGAGGAGACAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001191643
Insert Size:	1188 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001191643.1</u> , <u>NP_001178572.1</u>
RefSeq Size:	1755 bp
RefSeq ORF:	1188 bp
Locus ID:	303193
UniProt ID:	<u>D3ZKD3</u>
Cytogenetics:	10q22
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 (By similarity). Can also demethylate N(6)-methyladenosine in single-stranded DNA (in vitro). Requires molecular oxygen, alpha-ketoglutarate and iron. Demethylation of m6A mRNA affects mRNA processing and export (By similarity). 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]