

Product datasheet for MC214261

Alkbh5 (NM_172943) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Alkbh5 (NM_172943) Mouse Untagged Clone
Tag: Tag Free
Symbol: Alkbh5
Synonyms: Abh5; AW050020; AW215868; E130207K11; Ofoxd
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC214261 representing NM_172943
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCGGCCGCCAGCGGCTACACCGACCTGCGGGAGAAGCTCAAGTCCATGACGTCCCGGGACAACACTACA
 AGGCGGGCAGTCGGGAGGCCGCCCGCTGCGGCCGCCCGTGGCTGCCGCTGCCGCTGCCGCGGCCGC
 CGCTGAGCCTTACCCGGGCTCCGGGACCACCAAGCGGAAATACCAGGAGGACTCGGACCCGAGCGCAGC
 GACTACGAGGAGCATCAGTTGCAGAAGGAGGAAGAGGCGCGCAAGGTGAAGAGCGGCATCCGGCAGATCC
 GGCTCTTCAGTCAGGATGAGTGCTCCAAGATCGAGGCCCGCATCGATGAGGTGGTGTCCCGCGCCGAGAA
 GGGCCTGTACAACGAGCACACGGTGGACCGGGCCCCCTGCGCAACAAGTACTTCTTCGGCGAGGGCTAC
 ACGTACGGGGCCAGCTGCAGAAGCGCGGGCCGGGCCAGGAGCGCCTCTACCCGCGGGCGACGTCGACG
 AGATCCCGGACTGGGTGCATCAGCTGGTGATCCAGAAGCTGGTGGAGCACCGCGTCATCCCGAGGGCTT
 CGTCAACAGCGCGGTCAACGACTACCAGCCCGGGCTGCATCGTGTCCACGTTGACCCCATCCAC
 ATCTTCGAGCGCCCATCGTGTCCGTGTCTTTCTTCAGCGACTCGGCACCTTGTTCGGTCGAAGTTCC
 AGTTCAAGCCCATCCGGGTGTCGGAACCTGTGCTTTCTGCGGTGCGCAGGGGAGCGTGACTGTGCT
 CAGTGGGTATGCTGCTGATGAAATCACTCACTGCATACGGCCTCAGGACATTAAGGAACCGCGGGCGGTC
 ATCATTCTCAGGAAGACAAGATTAGATGCACCGGATTGAAACAAAATCCCTGAGCAGTCCACATTGC
 CACCCAGCTATGCTTCAGATCGCCTGTCAGGAAACACCAGAGACCCTGCGCTGAAACCCAAAAGTCCCA
 CCGCAAGGCAGACCCTGATGCTGCCACAGGCCCGGATCCTGGAATGGACAAAGAAGAAAACCGCGG
 TCTGTGCTCCTGCCACACACCGCGGAGGGGGAGTTTTAGCTCTGAGAATATTGGCGAAATCCTATG
 AGTCTCGGAAGATTGCCAGAGGCAGCCAGCAGCCACCCGCAAGGTGAAGATGAGGAGAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_172943
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).
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_172943.4</u> , <u>NP_766531.2</u>
RefSeq Size:	6025 bp
RefSeq ORF:	1188 bp
Locus ID:	268420
UniProt ID:	<u>Q3TSG4</u>
Cytogenetics:	11 B2
Gene Summary:	<p>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:29279410). Can also demethylate N(6)-methyladenosine in single-stranded DNA (in vitro) (By similarity). Requires molecular oxygen, alpha-ketoglutarate and iron (By similarity). 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 (PubMed:23177736, PubMed:29279410).</p> <p>[UniProtKB/Swiss-Prot Function]</p>