

## Product datasheet for **MC204641**

### **Alkbh8 (NM\_026303) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Alkbh8 (NM_026303) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Alkbh8
Synonyms:	4930562C03Rik; 8030431D03Rik; 9430088N01Rik; Abh8
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC050863  
 GATTGGTGTGGTTTACACAGTATTACTATGAATATCAATCATAAAGGTGTTTTGAAACTCACTAAAATGG  
 AAAAGAAGTTCTTAAGGAAACAGAGTAAAGCCAGGCATGTGTTGCTGAAACATGAAGGCATCCAAGCAGT  
 GTCTTATCCCCTCAGAGCCTGGTTATTGCCAATGGTGGTCTGGGTAATGGCGTAGTAGAAACAACCTG  
 CTTTTGACTTTGGAGAAATGTGGACCTGTGGAAGCTCTCCTCATGCCACCTAATAAGCCATATGCATTTG  
 TAATATTCCAAACTATTGAAGAATCCAAGAAAGCATATTTACCCTCAATGGAAAAAGAAATCATTGATGA  
 TTTGGGCGAGAAGATCTTTCTGTACTTGAATTTTGTGAAAAAGCACAATGGAAAAACATGGGCCCTTGAA  
 GCCTTACCTCCAGGCCTTGGTGGTAGAAGAAATTTTCTTCTGAGGAGGAGAAAAAGCTTCTGGAGA  
 GTGTGAATTGGACAGAAGATACAGGCAATCAGAATTTTCAAAGTCTTAAAAACACAGAAGAGTGAACA  
 TTTTGGCTATGAATTTCACTATGAGAGCAACACTGTGGATAAAGACAAGCCCTTACCTGGGGTCTTCT  
 GAGGTTTGCAGTAGCATTTTGGAGAAGTTGTTGAAAGAAGTTATATTAACATAAACAGACCAGTTGA  
 CCATAAATCAATATGAACCTGGGCATGGAATTCCTGCCCATATTGACACGCATTCTGCATTTGAAGATGA  
 GATTATTTCTCAGTTTGGGTCAGCGATTGTTATGGATTTCAAGCATCCAGAGGGTGCACAGTACAA  
 GTTATGTTACCTCGTGGAGTTTGTGGTGTGACAGGAGAATCTAGATACCTTTGGACTCATGGAATTA  
 CACCTCGAAAATTTGATACCGTCCAAGCGTCTGAGCAATTTAAAGGGGAATAATCACCAGTGACATTGG  
 AGACTTGACTTTAAGCAAGAGGGGAATGCGCACATCCTTTACGTTTAGAAAAAGTAGGCGAATGCCCTGC  
 AATTGTAGTTACTCCTCAGTCTGCGACAGACAAAGGAAGGCCACCTCCATCCCTTACAGAGAGCAGTA  
 AAGAAGCATTGGAGTTAGAGCAAAGCATGTCCATCAAGTGTACAATGAGATTGCAAGTCACTTCAGCAG  
 CACAAGACATAGCCCATGGCCACGCATAGTAGAGTTTCTGAAAGCTTTGCCAAGTGGTCCATAGTGGCA  
 GATATCGGATGTGGAATGGAAAATACCTTGGCATCAACAAGGACTTATATGATTGGGTGTGATCGTA  
 GCCAGAACCTTGTGGACATTTGTAGAGAGAGGCAGTCCAGGCCCTTAGTCTGCGATGCGCTGGCTGTTCC  
 TGTCAGAAGTGGTCTTGTGATGCTTGCATCTCTATTGCCGTATTCACTTTCACCACTTTGCAACTGCAGAGCGC  
 AGAGTGGAAAGCTCTCAAGAACTTGCCCGTCTCCTGAGACCTGGTGGCCAGGCCCTCATTATGTCTGGG  
 CAATGGAAACAAGAGTATAAAAAATCAGAAGTCCAAGTATCTTAGAGGAAAGAGAATTAGCCAAGGAGATAA  
 AGATGAGCTAAACAGTGCCACATCTACGGAAGAATTTCTAGTAAATCAAACGCCTGAGGGGGTCAATGAA  
 GACCCAGCATTGTCTGTCAACTCCAGTAGTATACCAAGGAAGAAGAGTATAAGTCAAGGAAAGTTCCTA  
 ATTCTGAACTCCCTATTCATATAAATAGGACCTGCTTTCATTCCCAAGATGTGCTGGTCCCTGGCACCT  
 CAAAAGAAACCCTGGTAAAGACAAAGCTATTGAACCATCTGGTGTAGCAGGATGCTCTGACCCAAGTCTCT  
 GTGTTTCATCGTTATTACCATGTTTTCTGTGATGGAGAATTGGAAGCTTCATGCCAGGCTGTGGGTGATG  
 TTAGCATTCTGCAGAGCTATTACGATCAAGGGAATTGGTGTGTTGTTCTTCAAAGGTCTGATCACTTAT  
 CTGAACATATCATGTGTAAGAGAAAAAAGTCAATCTCTTTTGGAAAGGAAACTAAATTATCTCT  
 TTAATAAGGAGGAAATTTGGAACAGAGATACTTAGGAAACATTTTCTCTATTCCCGTTGTCTGACTTC  
 ATAAACGTAGGTTCTCTTACATGCCTTTAAGTATGGTGTGTTGACATTAACCTGTGAAAAGTCTGTGAT  
 GTTTGTATATATATAGCATTGGAAGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_026303

**Insert Size:** 1995 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC050863</a> , <a href="#">AAH50863</a>
<b>RefSeq Size:</b>	2300 bp
<b>RefSeq ORF:</b>	1995 bp
<b>Locus ID:</b>	67667
<b>UniProt ID:</b>	<a href="#">Q80Y20</a>
<b>Cytogenetics:</b>	9 A1
<b>Gene Summary:</b>	<p>Catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its methyltransferase domain (PubMed:20123966). Catalyzes the last step in the formation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA (PubMed:20123966). Has a preference for tRNA(Arg) and tRNA(Glu), and does not bind tRNA(Lys) (By similarity). Binds tRNA and catalyzes the iron and alpha-ketoglutarate dependent hydroxylation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its dioxygenase domain, giving rise to 5-(S)-methoxycarbonylhydroxymethyluridine; has a preference for tRNA(Gly) (PubMed:20583019). Required for normal survival after DNA damage (By similarity). May inhibit apoptosis and promote cell survival and angiogenesis (By similarity).[UniProtKB/Swiss-Prot Function]</p>