

## Product datasheet for **MC205940**

### Alkbh2 (BC062188) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Alkbh2 (BC062188) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Alkbh2  
**Synonyms:** 9530023G02, Abh2, mABH2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC062188  
 CACCGCTCCGGGCTCTCCGGTGGAGCCCGTTGCTCGCCCGTGCCAGCCCTACCCCGGGGGCCGAGG  
 GCAGAGGCAACCCTGCTTTTCTGGGTAAGTGGCGAGCCTCATGCCTCTCTGCGTTGCGTCTTCCATG  
 TGTAGCCTTTTGGGTTTGGGCAGCCGTTTGCAGCCAAAGCTCTCGAATTCGAAGAGGACGACGGGTCT  
 TTAAGTACTCCATTCCAGGGCGGCCTGGGGATGCGTGCCCGGATTCTACCGATGGGCGCCTGGGG  
 CGTGAGGACAGCGTGGTTCGGGACGCGTCTGAGCTGTGAGTGGGCGGCGGATGGACAAGTTCCTGGTGA  
 GGCCAGACCTCCGCGACCTCCAAGGGGAGGGGAGGAGCCCGCCCGACGGGAGGAGCCTCGGGCGACCT  
 GAAGAGCCCGGACTGGCGACACCTTCGCGCGGAAGGTCTGAGCTGTGATTACACCGTCTATTGGCAAA  
 GCCGAGGACAGACAAGATTTCCGAGAGTTGGAGCAAGAAGTGGAGTATTTACTGGTGCCTGGCAAGG  
 TCCAGGTGTTCCGAAAAGTGGCACAGTGTCCAGGAAGCAGGCGACCTATGGCGATGCTGGCCTCACGTA  
 CACGTTTTCTGGTCTTACCCTGACACCAAGCCCTGGGTTCTGTCTAGAGCGTGTTCGAGATCGAGTC  
 TGCAGGTGACAGGACAGACCTTCAACTTTGACTCGTGAACAGGTACAAGATGGTTGGCACCACATCG  
 GCGAGCACAGAGATGACGAGCGAGAAGTGGCTCCGGGGAGCCCATCGCGTCTGTCTCCTTTGGCGCTTG  
 CAGAGACTTATTTTCCGGCACAAAGACTCTCGAGGGAAGAGGCCCGGAGGACAGTGGAGTGGTCCAGG  
 CTGCAGCTGGCACACGGAAGCCTGCTGATGATGAACCCCAACCAACCCACTGGTACCACAGTCTCC  
 CCATCCGCAAGAGGGTCTGGCTCCGCGGGTCAACTTGACTTTTCGAAAAATTTTACCTACTAAGAAATA  
 AAATGTCTTTATTTAAA  
 AA

**Restriction Sites:** RsrII-NotI  
**ACCN:** BC062188  
**Insert Size:** 720 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<u>BC062188</u> , <u>AAH62188</u>
<b>RefSeq Size:</b>	1148 bp
<b>RefSeq ORF:</b>	720 bp
<b>Locus ID:</b>	231642
<b>Cytogenetics:</b>	5 F
<b>Gene Summary:</b>	Dioxygenase that repairs alkylated DNA and RNA containing 1-methyladenine and 3-methylcytosine by oxidative demethylation. Can also repair alkylated DNA containing 1-ethenoadenine. Has strong preference for double-stranded DNA. Has low efficiency with single-stranded substrates. Requires molecular oxygen, alpha-ketoglutarate and iron. [UniProtKB/Swiss-Prot Function]