

## Product datasheet for **MC210360**

### Alkbh7 (NM\_025538) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Alkbh7 (NM\_025538) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Alkbh7  
**Synonyms:** 2310045B01Rik; 2510008E23Rik; Abh7; Spata11  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210360 representing NM\_025538  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGGCAGCAGGAGGCTAGCGATGCGGTTGCTTTCTGGGTGCGCCTGGGTGCGGGCTCAGACTCTG  
 CCGTGTGGGCCCTGCGTGATGAGGCCGTGGTGCATCCAGGCTTCTGAGCCAGGAGGAGGACAC  
 GCTAACACGCGAACTGGAGCCCCAGCTGCGGCGCCGGCGCTACGAGTACGACCACTGGGACGCGGCCATC  
 CATGGCTTCAGGGAGACAGAAAATCCTGCTGGTCTGATGCAAGCCAGGTATCCTGCAGCGGGTTCGGG  
 CGGCTGCATTTGGTCTGACCAGAGCCTGCTATCCCCAGTACATGTGTTGGACCTGGAACCTCGGGGCTA  
 CATCAAGCCTCATGTTGACAGTGTCAAGTTCTGTGGATCTACCATTGCTGGCCTTTCCCTGTTGTCTCCA  
 AGTGTTATGAAGCTGGTGCATACACAGGAACCTGAGCAGTGGCTGGAACCTGTTGCTGGAGCCAGGGTCTC  
 TCTATATCTTAAGGGGTTCCCGGGGCCGACGCATCTCAGTGATTTGCCGCTCCCTCCCTGAGGGGATGGGG  
 CCAGGAAGGCCAGAAGAGCCACCTCCAGCCTGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_025538  
**Insert Size:** 666 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>	<a href="#">NM_025538.3</a> , <a href="#">NP_079814.1</a>
<b>RefSeq Size:</b>	939 bp
<b>RefSeq ORF:</b>	666 bp
<b>Locus ID:</b>	66400
<b>UniProt ID:</b>	<a href="#">Q9D6Z0</a>
<b>Cytogenetics:</b>	17 D
<b>Gene Summary:</b>	<p>May function as protein hydroxylase; can catalyze auto-hydroxylation at Leu-110 (in vitro), but this activity may be due to the absence of the true substrate. Required to induce programmed necrosis in response to DNA damage caused by cytotoxic alkylating agents. Acts by triggering the collapse of mitochondrial membrane potential and loss of mitochondrial function that leads to energy depletion and cell death. ALKBH7-mediated necrosis is probably required to prevent the accumulation of cells with DNA damage. Does not display DNA demethylase activity (By similarity). Involved in fatty acid metabolism.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>