

## Product datasheet for MC206899

### Alkbh7 (BC029677) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alkbh7 (BC029677) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Alkbh7
Synonyms:	2310045B01Rik; 2510008E23Rik; Abh7; Spata11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206899 representing BC029677. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
 ATGCGGTTGCTTTCTGGGTGCGCCTGGGTGCGCGGCTCAGACTCTGCCGTGCTGGGCCGCTGCGTGAT  
 GAGGCCGTGGTGCATCCAGGCTTCTGAGCCAGGAGGAGGAGGACACGCTAACACGCGAACTGGAGCCC  
 CAGCTGCGGGCGCCGGCGCTACGAGTACGACCACTGGGACGCGGCCATCCATGGCTTCAGGGAGACAGAG  
 AAATCCTGCTGGTCTGATGCAAGCCAGGTCATCTGCAGCGGGTTCGGGCGGCTGCATTTGGTCTGAC  
 CAGAGCCTGCTATCCCCAGTACATGTGTGGACCTGGAACCTCGGGGCTACATCAAGCCTCATGTTGAC  
 AGTGTCGAAGTTCTGTGGATCTACCATTGCTGGCCTTTCCCTGTTGTCTCCAAGTGTATGAAGCTGGTG  
 CATACACAGGAACCTGAGCAGTGGCTGGAACCTGTTGCTGGAGCCAGGGTCTCTCTATATCTTAAGGGGT  
 TCAGCCCAGATGACTTCTCCCATGAGATCCTTAGAGATGAAGAATCATTTTTGGGGAGCACCGGGT  
 CCCCAGGGCCGACGCATCTCAGTGATTTGCCGCTCCCTCCCTGAGGGGATGGGGCCAGGAAGGCCAGAA  
 GAGCCACCTCCAGCCTGCTGA  
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	BC029677
Insert Size:	642 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).


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<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><a href="#">BC029677</a></u>
<b>RefSeq Size:</b>	718 bp
<b>RefSeq ORF:</b>	641 bp
<b>Locus ID:</b>	66400
<b>Cytogenetics:</b>	17 D
<b>MW:</b>	24.1 kDa
<b>Gene Summary:</b>	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]