

## Product datasheet for SC317624

### ALKBH1 (NM\_006020) Human Untagged Clone

#### Product data:

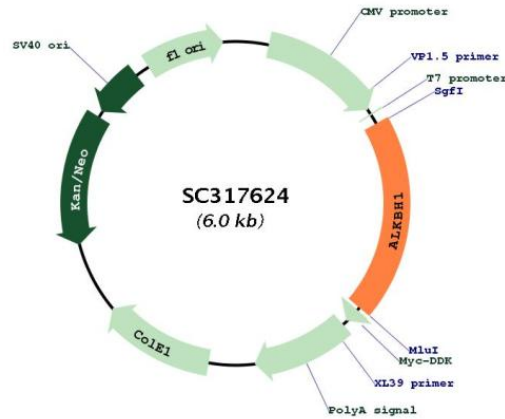
Product Type:	Expression Plasmids
Product Name:	ALKBH1 (NM_006020) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALKBH1
Synonyms:	ABH; ABH1; alkB; ALKBH; hABH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317624 representing NM_006020. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGAAGATGGCAGCGGCCGTGGGCTCTGTGGCGACTCTGGCGACTGAGCCGGGGAGGACGCCTTT
CGGAAACTTTTCCGCTTCTACCGTCAGAGCCGGCCCGGGACCGCAGACCTGGAAGGGTTCATCGACTTC
TCGGCGGCCACGCAGCCCGTGGCAAGGGTCTGGTGCCAAAAGGTGATCAAATCTCAGCTAAATGTG
TCTTCTGTCAGTGAGCAGAATGCATATAGAGCAGGTCTTCAGCCCGTCAGCAAGTGGCAAGCCTATGGA
CTCAAAGGCTATCTGGGTTTATTTTTATCCCAAACCCCTTCTCCAGGTTACCAAGTGGCAAGCCTATGGA
AAACAGTGCCTTAAGTTATATCCAGAAACCTAATGTATGTAACCTGGACAAACACATGTCTAAAGAA
GAGACCAAGATCTGTGGGAACAGAGCAAAGAGTTCCTGAGGTATAAAGAAGCGACTAAACGGAGACCC
CGAAGTTTACTGGAGAACTGCCTGGGTGACCGTAGGCTACCATTATAACTGGGACAGTAAAGAAATAC
TCAGCAGATCATTACACACCTTTCCCTTCTGACCTGGGTTTCTCTCAGAGCAAGTAGCCGCTGCCTGT
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CACGTAGACAGATCTGAGCTAGATCACTCCAAACCCTTGCTGTCAATTCAGCTTTGGACAGTCCGCCATC
TTTCTCCTGGGTGGTCTTCAAAGGGATGAGGCCCCACGGCCATGTTTATGCACAGTGGTGACATCATG
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GGCCTGCCTCACTGCCTAGAGGCACCTCCTCTGCTGTCTCCGAGAGATTCAATGGTAGAGCCTTGT
TCTATGGAGACTGGCAGGTGTGTGCCAGCTACTTGAAGACCGCTCGTGTAAACATGACTGTCCGACAG
GTCTGGCCACAGACCAGAAATTTCCCTCTAGAACCATCGAGGATGAAAAAGAGACATCAGTACAGAA
GGTTTCTGCCATCTGGATGACCAGAATAGCGAAGTAAAACGGGCCAGGATAAACCTGACAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_006020

**Insert Size:** 1170 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:**

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:** [NM\\_006020.2](#)

**RefSeq Size:** 2585 bp

**RefSeq ORF:** 1170 bp

**Locus ID:** 8846

**UniProt ID:** [Q13686](#)

**Cytogenetics:** 14q24.3

**Domains:** 2OG-Fell\_Oxy

**MW:** 43.8 kDa

**Gene Summary:** This gene encodes a homolog to the E. coli alkB gene product. The E. coli alkB protein is part of the adaptive response mechanism of DNA alkylation damage repair. It is involved in damage reversal by oxidative demethylation of 1-methyladenine and 3-methylcytosine. [provided by RefSeq, Jul 2008]