

## Product datasheet for RC206529

### ALKBH1 (NM\_006020) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | ALKBH1 (NM_006020) Human Tagged ORF Clone                         |
| Tag:                      | Myc-DDK   |
| Symbol:                   | ALKBH1  |
| Synonyms:                 | ABH; ABH1; alkB; ALKBH; hABH                                      |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC206529 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAAGATGGCAGCGGCCGTGGGCTCTGTGGCGACTCTGGCGACTGAGCCCGGGGAGGACGCCTTTC  
GGAACCTTTCCGCTTCTACCGTCAGAGCCGGCCGGGACCGCAGACCTGGAAGGGGTATCGACTTCTC  
GGCGGCCACGCAGCCCGTGGCAAGGGTCTGGTCCCAAAGGTGATCAAATCTCAGCTAAATGTGTCT  
TCTGTCAGTGAGCAGAATGCATATAGAGCAGGTCTTCAGCCCGTCAGCAAGTGGCAAGCCTATGGACTCA  
AAGGCTATCCTGGGTTTATTTTTATCCCAAACCCCTTCTCCAGGTTACCAAGTGGCAAGCCTATGGACTCA  
GTGCTTAAGTTATATCCAGAAACCTAATGTATGTAACCTGGACAAACACATGTCTAAAGAAGAGACC  
CAAGATCTGTGGGAACAGAGCAAAGAGTTCCTGAGGTATAAAGAAGCGACTAAACGGAGACCCCGAAGTT  
TACTGGAGAACTGCGTTGGGTGACCGTAGGCTACCATTAACTGGGACAGTAAGAAATACTCAGCAGA  
TCATTACACACCTTTCCCTTCTGACCTGGGTTTCTCTCAGAGCAAGTAGCCGCTGCCTGTGGATTTGAG  
GATTTCCGAGCTGAAGCAGGGATCCTGAATTAACCGCTGGACTCCACTGGGAATCCACGTAGACA  
GATCTGAGCTAGATCACTCCAAACCTTGCTGTCACTCAGCTTTGGACAGTCCGCATCTTTCTCCTGGG  
TGGTCTTCAAAGGGATGAGGCCCCACGGCCATGTTATGCACAGTGGTGACATCATGATAATGTCCGGT  
TTCAGCCGCTCTGAACCACGCAGTCCCTCGTGCCTTCCAAATCCAGAAGGGGAGGCCTGCCTCACT  
GCCTAGAGGCACCTCTCCCTGCTGCTCCCGAGAGATTCAATGGTAGAGCCTTGTCTATGGAGGACTG  
GCAGGTGTGTGCCAGCTACTGAAGACCCTCGTGTAAACATGACTGTCCGACAGTCTGGCCACAGAC  
CAGAATTTCCCTTAGAACCATCGAGGATGAAAAAGAGACATCAGTACAGAAGGTTTCTGCCATCTGG  
ATGACCAGAATAGCGAAGTAAAACGGGCCAGGATAAACCTCACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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](#), [NP\\_006011.2](#)

**RefSeq Size:** 2585 bp

**RefSeq ORF:** 1170 bp

**Locus ID:** 8846

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

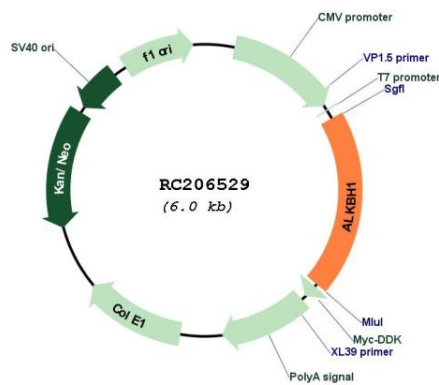
**Cytogenetics:** 14q24.3

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

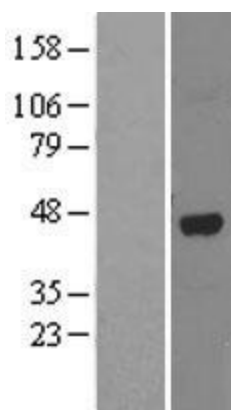
**MW:** 43.9 kDa

**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]

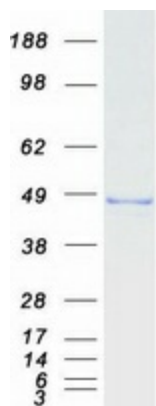
### Product images:



Circular map for RC206529



Western blot validation of overexpression lysate (Cat# [LY401825]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206529 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ALKBH1 protein (Cat# [TP306529]). The protein was produced from HEK293T cells transfected with ALKBH1 cDNA clone (Cat# RC206529) using MegaTran 2.0 (Cat# [TT210002]).