

## Product datasheet for **RC233328**

### **ABH2 (ALKBH2) (NM\_001205180) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ABH2 (ALKBH2) (NM\_001205180) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ABH2  
**Synonyms:** ABH2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233328 representing NM\_001205180  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAGATTCCTGGTAAAGGGGCTCAAGGGGCTTTTGGAGAACAGGAGGAGCAAGAGCCAACTG  
GAGAAGAGCCAGCTGTGTGGGAGGAGACAAAGAAAGCACAAGGAAGAGGCCAGGAGAGAGGCCCCAGG  
GAATGGAGGCCACTCAGCAGGCCCTAGCTGGCGGCACATTCGGGCTGAGGGCCTGGACTGCAGTTACACA  
GTCCTGTTTGGCAAAGCTGAGGCAGATGAGATTTTCCAAGAGTTGGAGAAAGAAGTAGAATATTTTACAG  
GTATAAAGATGGCTGTGACCACATCGGGGAGCACCGAGATGATGAAAGAGAACTGGCCCCGGGAGCCCC  
ATTGCCTCTGTCTCCTTCGGTGCCTGCAGAGACTTTGTCTCCGGCATAAGGATCCCGTGGGAAAAGCC  
CCTCCAGGAGGGTGGCGGTGGTCAGGCTGCCGCTGGCCCACGGGAGCTTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233328 representing NM\_001205180  
**Red=Cloning site Green=Tags(s)**

MDRFLVKGAQGGLLRKQEEQEPTGEEPVLGGDKESTRKRPRREAPGNGGHSAGPSWRHIRAEGLDCSYT  
VLFGKAEADEIFQELEKEVEYFTGIKMAVTTSGSTEMMKENWPLGAPLPLSPVPAETLSSGIRIPVGKA  
PPGGWRWSGCRWPTGAY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001205180

**ORF Size:** 471 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001205180.1](#), [NP\\_001192109.1](#)

**RefSeq Size:** 857 bp

**RefSeq ORF:** 474 bp

**Locus ID:** 121642

**UniProt ID:** [Q6NS38](#)

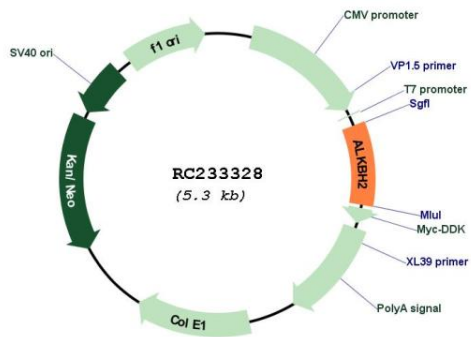
**Cytogenetics:** 12q24.11

**Protein Families:** Druggable Genome

**MW:** 17.5 kDa

**Gene Summary:** The Escherichia coli AlkB protein protects against the cytotoxicity of methylating agents by repair of the specific DNA lesions generated in single-stranded DNA. ALKBH2 and ALKBH3 (MIM 610603) are E. coli AlkB homologs that catalyze the removal of 1-methyladenine and 3-methylcytosine (Duncan et al., 2002 [PubMed 12486230]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RC233328