

Product datasheet for **SC326457**

ABH2 (ALKBH2) (NM_001145374) Human Untagged Clone

Product data:

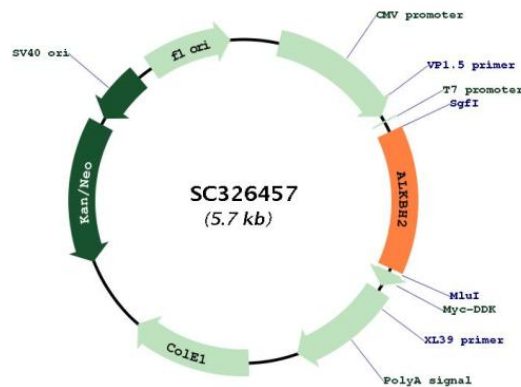
| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | ABH2 (ALKBH2) (NM_001145374) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ALKBH2 |
| Synonyms: | ABH2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC326457 representing NM_001145374. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACAGATTCCTGGTAAAGGGGCTCAAGGGGCCTTTTGAGGAAGCAGGAGGAGCAAGACCAACT
GGAGAAGAGCCAGCTGTGTTGGGAGGAGACAAAGAAAGCACAAGGAAGAGGCCAGGAGAGAGGCCCA
GGGAATGGAGGCCACTCAGCAGGCCCTAGCTGGCGGCACATTCGGGCTGAGGGCCTGGACTGCAGTTAC
ACAGTCTGTTTGGCAAAGCTGAGGCAGATGAGATTTTCCAAGAGTTGGAGAAAGAAGTAGAATATTTT
ACAGGAGCACTGGCCAGAGTCCAGGTATTCGGGAAGTGGCACAGTGTCCCAGGAAGCAGGCAACGTAT
GGCGACGCTGGGCTGACCTACACATTTTCAGGCCTCACGCTGTCTCAAAGCCCTGGATCCCAGTTCTA
GAGCGCATCCGGGATCACGTCTCTGGGGTGACTGGACAGACCTTCAACTTTGTGCTCATCAACAGGTAT
AAAGATGGCTGTGACCACATCGGGGAGCACCGAGATGATGAAAGAGAAGTGGCCCTGGGAGCCCATC
GCCTCTGTCTCCTTCGGTGCCTGCAGAGACTTTGTCTTCCGGCATAAGGATTCCTGGGAAAAGCCCC
TCCAGGAGGGTGGCGGTGGTCCAGGCTGCCGCTGGCCACGGGAGCTTACTAATGATGAACACCCGACC
AACACGCACTGGTACCACAGTCTTCCCGTGAGAAAAGAAGTTCGGCTCCACGGTGAATCTGACTTTT
CGTAAAATTTTGCTTACTAAAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001145374

Insert Size: 786 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_001145374.1](#)

RefSeq Size: 1206 bp

RefSeq ORF: 786 bp

Locus ID: 121642

UniProt ID: [Q6NS38](#)

Cytogenetics: 12q24.11

Protein Families: Druggable Genome

MW: 29.3 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]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1-3 encode the same protein.