

Product datasheet for **RG206529**

ALKBH1 (NM_006020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALKBH1 (NM_006020) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALKBH1
Synonyms:	ABH; ABH1; alkB; ALKBH; hABH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206529 representing NM_006020 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAAGATGGCAGCGGCCGTGGGCTCTGTGGCGACTCTGGCGACTGAGCCCGGGGAGGACGCCTTTC
GGAAACTTTCCGCTTCTACCGTCAGAGCCGGCCGGGACCGCAGACCTGGAAGGGGTATCGACTTCTC
GGCGGCCACGCAGCCCGTGGCAAGGGTCTGGTCCCAAAGGTGATCAAATCTCAGCTAAATGTGTCT
TCTGTCAGTGAGCAGAATGCATATAGAGCAGGTCTTCAGCCCGTCAGCAAGTGGCAAGCCTATGGACTCA
AAGGCTATCCTGGGTTTATTTTTATCCCAAACCCCTTCTCCAGGTTACCAAGTGGCAACTGGGTGAAACA
GTGCCTTAAGTTATATCCAGAAACCTAATGTATGTAACCTGGACAAACACATGTCTAAAGAAGAGACC
CAAGATCTGTGGGAACAGAGCAAAGAGTTCCTGAGGTATAAAGAAGCGACTAAACGGAGACCCCGAAGTT
TACTGGAGAACTGCGTTGGGTGACCGTAGGCTACCATTAACTGGGACAGTAAGAAATACTCAGCAGA
TCATTACACACCTTTCCCTTCTGACCTGGGTTTCTCTCAGAGCAAGTAGCCGCTGCCTGTGGATTTGAG
GATTTCCGAGCTGAAGCAGGGATCCTGAATTACTACCGCTGGACTCCACTGGGAATCCACGTAGACA
GATCTGAGCTAGATCACTCCAAACCCCTGCTGTCACTTTCAGCTTTGGACAGTCCGCCATCTTCTCCTGGG
TGGTCTTCAAAGGGATGAGGCCCCACGGCCATGTTTATGCACAGTGGTGACATCATGATAATGTCGGGT
TTCAGCCGCTCTGAACCACGCAGTCCCTCGTGCCTTCCAAATCCAGAAGGGGAGGCCCTGCCTCACT
GCCTAGAGGCACCTCTCCCTGCTGCTCCCGAGAGATTCAATGGTAGAGCCTTGTCTATGGAGGACTG
GCAGGTGTGTGCCAGCTACTGAAGACCCTCGTGTAAACATGACTGTCCGACAGGTCCTGGCCACAGAC
CAGAATTTCCCTTAGAACCATCGAGGATGAAAAAGAGACATCAGTACAGAAGGTTTCTGCCATCTGG
ATGACCAGAATAGCGAAGTAAAACGGGCCAGGATAAACCCCTCACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206529 representing NM_006020
 Red=Cloning site Green=Tags(s)

MGKMAAVGVSATLATEPGEDAFRKLFRFYRQSRPGTADLEGVIDFSAAHAARGKGPQAQKVIKSQLNVS
 SVSEQNAYRAGLQPVSKWQAYGLKGYPGFIFIPNPFLPGYQWHVWKQCLKLYSQKPNVCNLDKHMSKEET
 QDLWEQSKEFLRYKEATKRRRPRSLLEKLRWVTVGYHYNWDSSKKYSADHYTPFPSDLGFLSEQVAAACGFE
 DFRAEAGILNYYRLDSTLGIHVDRSELHDSKPLLSFSFGQSAIFLLGGLQRDEAPTAMFMHSGDIMIMSG
 FSRLLNHAVPRVLPNPEGEGLPHCLEAPLPAVLPRDSMVEPCSMEDWQVCASYLKTARVNMVTRVQLATD
 QNFPLEPIEDEKRDISTEGFCHLDDQNSEVKRARINPHS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006020

ORF Size: 1167 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_006020.2](#), [NP_006011.2](#)

RefSeq Size: 2585 bp

RefSeq ORF: 1170 bp

Locus ID: 8846

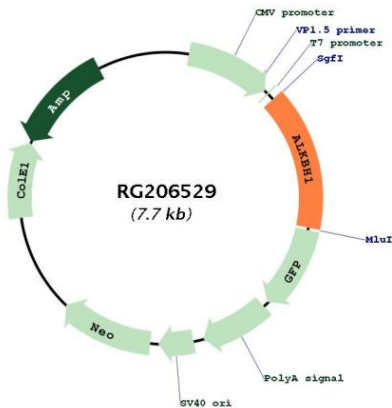
UniProt ID: [Q13686](#)

Cytogenetics: 14q24.3

Domains: 2OG-Fell_Oxy

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 RG206529