

Product datasheet for **SC319250**

ALKBH4 (NM_017621) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALKBH4 (NM_017621) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALKBH4
Synonyms:	ABH4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_017621.2
 GCGCGATGGCGGCGGCTGCCGCCGAGACCCCGAAGTCCTTCGGGAATGCGGTTGCAAGG
 GCATCCGGACCTGTCTGATCTGCGAGCGGCAGCGCGCAGTGACCCGCCCTGGGAGCTGC
 CCCCAGCGAAAACATACCGTTTCATTTACTGCTCCGACACCGGCTGGGCCGTGGGCACAG
 AGGAGTCTGACTTTGAGGGCTGGGCCTCCCTTCCCAGGAGTGATGCTGATCGAGGACT
 TTGTGACCCCGGGAGGAAGAAGCCGAGTTGGTGGCGCTCATGGACCGTGACCCCTGGAAGC
 TCTCCCAGTCTGGACGGAGGAAGCAGGACTATGGCCCCAAAGTCAACTTTCGGAACAGA
 AGCTAAAGACCGAGGGCTTCTGCGGCCTCCCAGCTTCAGCCGGGAGGTGGTGGGAGGA
 TGGGCCTCTACCCGGGGCTGGAGGGCTTCCGGCCCGTCGAGCAGTGCAACCTGGACTACT
 GCCCCGAGCGGGGCTCTGCCATTGACCCCCACCTGGACGACGCCTGGCTGTGGGGGAGC
 GGCTGGTCAGCCTCAACCTCCTGTCCCCACCGTGTGTCCATGTGTGGGAGGGCGCCC
 GGAGCCTGCTCCTGCTCGGCCCGTCGGCTGCCCGGAGGCCTTGGTGGACAGCGTGA
 TAGCACCAGCCGGTCGGTGCTATGCCAGGAGGTGGAGGTGGCCATCCCCTTACCCGCC
 GCTCCCTGCTGGTCTCACCGGGCGGCACGGCACCAGTGAAGCATGCCATCCACCGCA
 GACACATCGAGGCCCGCCGCGTCTGCGTCACTTCCGGGAGCTGTCGGCTGAGTTTGGCC
 CTGGAGGGAGGCAGCAAGAGCTGGGCCAGGAAGTCTGCGGATCGCCCTCTCCTTCCAGG
 GAAGACCCGTGTGAACCCCTCCTTGGCTCCAGACTTGACTGATCCCGGATTGAAATGA
 GGAGCACAGAACAGGGCCTCCTGCAACTCACGGGGTTTCAAGAGAAGATGGCTGACCCCT
 GATGCTGTGAGCAGTGTGAGCCCTGCCAGGAGCAGGTTTTGATGGGAACGTACCTCCAG
 GCAGCCCCCTCCACCTGGACCGTGGCCACACTTTTTGGTTATTTAGTTTGTACAGTC
 TTGGGGACATGGGATCATTTGAGCTTAAAAAATACTGGGGCCGGGCACAGTGGCTCACA
 CCTGTAATCCTAACACTTTGGGAGGCTGAGGTGGGCGGATCACTTGATGCCAGGAGTTCG
 AGACCAGCCTGGCCAACACGGTGAAAACCGTCTCTACAAAAACTACAAAAATTAGCCGG
 GTGTGGTGACTCACAGCGTAATCCCAGTACTCGGGAGGCTAAGGTGGGAGAATTGCTT
 GAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCCTCGGT
 GACAGAGCAAGACTGTTTTGAAAAAAAAAAAAAATGGGAACATTTTAAATGATTTTACC
 TTTATTATGCATCTATTTTCATGGGTTTCCCGATATCTCACTGTCCAGTCCCTTCATTT
 GGGGAATGTGTTGGATTAGGGAACAGGTTGAAGATTTGAAGTTTACTAAAGAGCTGG
 GAACAGCTTCAGAGTCAGGCTCAGCCTGACTCATGCTTGACACCCCCACGCCAGGGAGG
 GTTGGGGATGTGAGGAGGGCAGGAAATCTGAGAGCCTCCTCCAGCCCATAACGCTG
 TTAACAAGTAGGAAAAATTAAGCTCCCGCCAGGCGCGTGACTCACACCTGTAATCCG
 AGTACTTTGCGGGCTCAGGTGGGAGGATTGCTTGAGGCCAGCCTGGGCAACATAGTGAG
 ACCCCATCTCTACAAAAATACAAACATTAGCTGGGCGTCTGGGCATGGTGGCACACAC
 CTGTAGTCCCAGTACTCGAAAGGCTGAGGCGGGAGGATGGCTTTACCACCATGTCAAGG
 CTGCACTGAGCTCATGATCATACTGCACTTAACCTGGCAACAGAGCAAGACCCTGTC
 CCTAAAATAAATAAAGGAAAACAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_017621

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:	<ol style="list-style-type: none">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:	<u>NM_017621.2</u> , <u>NP_060091.1</u>
RefSeq Size:	2081 bp
RefSeq ORF:	909 bp
Locus ID:	54784
UniProt ID:	<u>Q9NXW9</u>
Cytogenetics:	7q22.1
Domains:	2OG-Fell_Oxy
Gene Summary:	Dioxygenase that mediates demethylation of actin monomethylated at 'Lys-84' (K84me1), thereby acting as a regulator of actomyosin-processes. Demethylation of actin K84me1 is required for maintaining actomyosin dynamics supporting normal cleavage furrow ingression during cytokinesis and cell migration. May be involved in transcription regulation. [UniProtKB/Swiss-Prot Function]