

Product datasheet for **SC324662**

ALKBH8 (NM_138775) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALKBH8 (NM_138775) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALKBH8
Synonyms:	ABH8; MRT71; TRM9; TRMT9; TRMT9A
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_138775.1
 GGCGTGCAAGTATCCGCTGCGGTGTTCTGGTGCTAGAGTGGAGAGGCTGGCAAAGAAGAA
 GGCACACGCATGGTGAGAATCCGGCCTGAGCCGAAGCGGAGTTTCTATGGACAGCAACC
 ATCAAAGTAATTACAACTCAGTAAAACGAGAAGAAGTTCTTAAGGAAACAGATTAAG
 CCAAGCATACTTTGCTGAGACATGAAGGCATTGAGACAGTATCCTATGCCACTCAGAGCC
 TGGTTGTTGCCAATGGTGGTTTGGGTAATGGTGTGAGTCGGAACCAGCTGCTCCCGTTT
 TAGAGAAATGTGGACTGGTGGATGCTCTTAATGCCACCTAACCAAGCCGTAATTTG
 CAAGATACAGAACTACAGAAGAATCTAAGAGAGCCTATGTTACCCTCAATGGAAAAGAAG
 TAGTGGATGATTTAGGACAAAAGATCACTCTGTATTTGAATTTTGTGAAAAAGTGCAGT
 GGAAGGAGTTGAGGCCTCAAGCCTTACCACCAGGACTCATGGTAGTAGAAGAAATAATTT
 CTTCTGAGGAGGAGAAAATGCTTTTGGAAAGTGTGATTGGACAGAAGATACAGACAATC
 AAAACTCTCAAAAATCCTTAAAACACAGAAGAGTAAAGCATTTTGGTTATGAGTTCCACT
 ATGAGAACAAATGTAGATAAAGATAAGCCATTATCTGGGGTCTTCTGACATTTGTG
 AAAGCTTTTGGAGAAAATGGTTGAGGAAAGTTACATTAACATAAACCTGATCAATGA
 CCATAAATCAGTATGAACCTGGGCAAGATTGTCATGGATTTTAAGCACCCAGATGGCATT
 GCAGTGCCAGTTATGTTGCCTCGTCGGAGTTTGTGGTGTGACAGGAGAATCTAGATAC
 CTTTGGACCCATGGAATCACGTGCAGAAAATTTGATACTGTTCAAGCATCTGAGAGTCTT
 AAAAGTGGAAATATCACCAGTGTGTTGGAGACTTAACTTTAAGCAAGAGGGGACTACGA
 ACATCATTTACATTTAGGAAAAGTGGGCAACACCTTGTAACTGTAGAGCGTAGAGTGGC
 AGCTCTCCAAGAAATTTGTCGACTCCTGAGACCAGGTGGGAAGGCACTCATTTATGTCTG
 GGCAATGGAACAAGAATAATAAAGCAGAAGTCCAAGTATCTTAGAGGAAACAGAAATAG
 CCAAGGAAAGAAAGAGGAGATGAACAGTGATACCTCAGTGCAGAGGTCACTTGTGGAGCA
 AATGCGTGACATGGGCGATCGAGACTCGGCATCTTCTGTCCCGCATTAACTGACTCTCA
 GGAAGGAGGATGTAATCAAGGCAAGTTTCTAATTCCAAGCTGCCTGTTTCAATGTTAACAG
 GACTTCTTTTTATTCTCAAGATGTACTGGTTCCTGGCACCTTAAAGGAAATCCTGATAA
 AGGCAAACCTGTTGAGCCATTTGGTCCCATAGGATCCCAGGACCCAAGTCTGTGTTTCA
 TCGTTACTACCATGTGTTCCGTGAGGGAGAACTGGAAGGTGCCTGCAGGACTGTGAGTGA
 TGTCAGAAATCTGCAAAGCTACTACGATCAAGGAAACTGGTGTGTGATTCTTCAAAGGC
 CTGATTATTTACCTGAACACATCATATATAAAGAAGAAATGCTCACTTAAAAAAAAAAAA
 AAAAA

Restriction Sites: Please inquire

ACCN: NM_138775

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_138775.1](#), [NP_620130.1](#)

RefSeq Size: 4085 bp

RefSeq ORF: 717 bp

Locus ID: 91801

UniProt ID: [Q96BT7](#)

Cytogenetics: 11q22.3

Domains: RRM

Protein Families: Druggable Genome

Gene Summary: Catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its methyltransferase domain (PubMed:20123966, PubMed:20308323). Catalyzes the last step in the formation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA (PubMed:20123966, PubMed:20308323). Has a preference for tRNA(Arg) and tRNA(Glu), and does not bind tRNA(Lys)(PubMed:20308323). Binds tRNA and catalyzes the iron and alpha-ketoglutarate dependent hydroxylation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its dioxygenase domain, giving rise to 5-(S)-methoxycarbonylhydroxymethyluridine; has a preference for tRNA(Gly) (PubMed:21285950). Required for normal survival after DNA damage (PubMed:20308323). May inhibit apoptosis and promote cell survival and angiogenesis (PubMed:19293182).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate splice junction at the 3' end of the first exon and a downstream start codon compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.