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Product datasheet for SC327963

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:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_138775, the custom clone sequence may differ by one or more nucleotides

ATGGACAGCAACCATCAAAGTAATTACAAACTCAGTAAAACTGAGAAGAAGTTCTTAAGG
AAACAGATTAAAGCCAAGCATACTTTGCTGAGACATGAAGGCATTGAGACAGTATCCTAT
GCCACTCAGAGCCTGGTTGTTGCCAATGGTGGTTTGGGTAATGGTGTGAGTCGGAACCAG
CTGCTCCCGGTTTTAGAGAAATGTGGACTGGTGGATGCTCTCTTAATGCCACCTAACAAG
CCGTACTCATTTGCAAGATACAGAACTACAGAAGAATCTAAGAGAGCCTATGTTACCCTC
AATGGAAAAGAAGTAGTGGATGATTTAGGACAAAAGATCACTCTGTATTTGAATTTTGTG
GAAAAAGTGCAGTGGAAGGAGTTGAGGCCTCAAGCCTTACCACCAGGACTCATGGTAGTA
GAAGAAATAATTTCTTCTGAGGAGGAGAAAATGCTTTTGGAAAGTGTTGATTGGACAGAA
GATACAGACAATCAAAACTCTCAAAAATCCTTAAAACACAGAAGAGTAAAGCATTTTGGT
TATGAGTTCCACTATGAGAACAACAATGTAGATAAAGATAAGCCATTATCTGGGGGTCTT
CCTGACATTTGTGAAAGCTTTTTGGAGAAATGGTTGAGGAAAGGTTACATTAAACATAAA
CCTGATCAAATGACCATAAATCAGTATGAACCTGGGCAAGGAATTCCCGCTCATATTGAT
ACACATTCCGCTTTTGAGGATGAGATCGTTTCTCTCAGTTTGGGGTCAGAGATTGTCATG
GATTTTAAGCACCCAGATGGCATTGCAGTGCCAGTTATGTTGCCTCGTCGGAGTTTGCTG
GTGATGACAGGAGAATCTAGATACCTTTGGACCCATGGAATCACGTGCAGAAAATTTGAT
ACTGTTCAAGCATCTGAGAGTCTTAAAAGTGGAATTATCACCAGTGATGTTGGAGACTTA
ACTTTAAGCAAGAGGGGACTACGAACATCATTTACATTTAGGAAAGTGAGGCAAACACCT
TGTAACTGTAGTTACCCGTTGGTCTGTGATAGCCAGAGGAAAGAGACTCCCCCCTCATTT
CCAGAGAGTGATAAAGAAGCCTCACGGCTGGAGCAAGAGTACGTCCATCAGGTTTATGAA
GAGATTGCTGGGCACTTCAGCAGCACAAGACATACCCCTTGGCCGCACATTGTGGAGTTT
TTGAAGGCTTTGCCAAGTGGTTCAATAGTGGCTGATATTGGATGTGGTAATGGAAAGTAT
CTTGGCATCAATAAGGAGTTATATATGATTGGTTGTGATCGTAGCCAAAACCTTGTGGAC
ATTTGTAGAGAGAGGCAATTTCAGGCTTTTGTCTGTGATGCATTGGCAGTACCAGTCCGC
AGTGGGTCTTGTGATGCCTGCATCTCCATTGCTGTTATTCATCATTTTGCAACAGCAGAG
CGTAGAGTGGCAGCTCTCCAAGAAATTGTTCGACTCCTGAGACCAGGTGGGAAGGCACTC
ATTTATGTCTGGGCAATGGAACAAGAATATAATAAGCAGAAGTCCAAGTATCTTAGAGGA
AACAGAAATAGCCAAGGAAAGAAAGAGGAGATGAACAGTGATACCTCAGTGCAGAGGTCA
CTTGTGGAGCAAATGCGTGACATGGGCAGTCGAGACTCGGCATCTTCTGTCCCCCGCATT
AATGACTCTCAGGAAGGAGGATGTAATTCAAGGCAAGTTTCTAATTCCAAGCTGCCTGTT
CATGTTAACAGGACTTCTTTTTATTCTCAAGATGTACTGGTTCCCTGGCACCTTAAGGGA
AATCCTGATAAAGGCAAACCTGTTGAGCCATTTGGTCCCATAGGATCCCAGGACCCAAGT
CCTGTGTTTCATCGTTACTACCATGTGTTCCGTGAGGGAGAACTGGAAGGTGCCTGCAGG
ACTGTGAGTGATGTCAGAATTCTGCAAAGCTACTACGATCAAGGAAACTGGTGTGTGATT
CTTCAAAAGGCC

Restriction Sites: Please inquire

ACCN: NM_138775

Insert Size: 4085 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_138775.2, NP_620130.2
RefSeq Size:	4085 bp
RefSeq ORF:	1995 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.