

Product datasheet for **RC239268**

ALKBH8 (NM_001301010) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALKBH8 (NM_001301010) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALKBH8
Synonyms:	ABH8; MRT71; TRM9; TRMT9; TRMT9A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC239268 representing NM_001301010
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTTTGCTATGGACAGCAACCATCAAAGTAATTACAACTCAGTAAACTGAGAAGAAGTCTTAAGGA
 AACAGATTAAAGCCAAGCATACTTTGCTGAGACATGAAGGCATTGAGACAGTATCCTATGCCACTCAGAG
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Protein Sequence: >RC239268 representing NM_001301010
 Red=Cloning site Green=Tags(s)

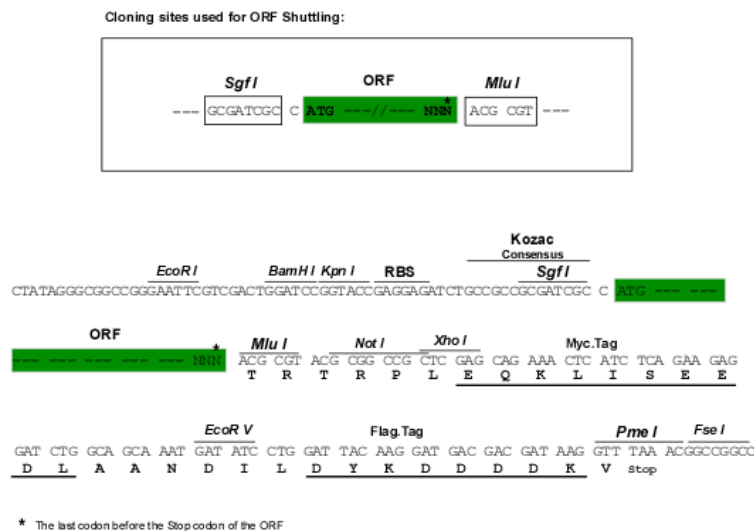
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 EIVRLLRPGGKALIYVWAMEQEYNKQKSKYL RGNRNSQGKKEEMNSDTSVQSRSLVEQMRDMGSRDSASSV
 PRINDSQEGGCNSRQVSNSKLPVHVNRTSFYSDQDVLVPWHLKGNPDKGKPVPEFGPIGSQDPSPVFHRYY
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Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001301010

ORF Size: 2001 bp

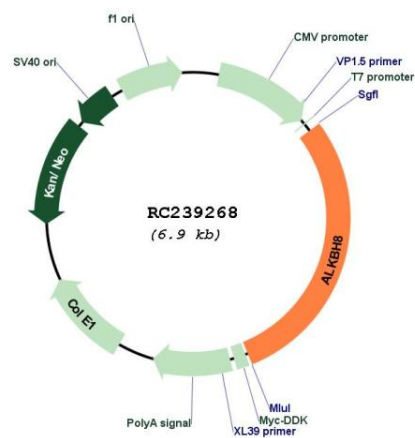
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001301010.2</u>
RefSeq Size:	4056 bp
RefSeq ORF:	1995 bp
Locus ID:	91801
UniProt ID:	<u>Q96BT7</u>
Cytogenetics:	11q22.3
Protein Families:	Druggable Genome
MW:	76 kDa
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]

Product images:



Circular map for RC239268