

Product datasheet for **SC309823**

KDM4B (NM_015015) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: KDM4B (NM_015015) Human Untagged Clone
Tag: Tag Free
Symbol: KDM4B
Synonyms: JMJD2B; TDRD14B
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_015015 edited
 CGGGCCCCGGCCGAGCGGGGCTGGGGTGCGACGCCGAGGGCGGGGAGAGCGCGCCG
 CTGCTCCCGGACCGGGCCGCGCACGCCCTCAGGAACCATCACTGTTGCTGGAGGCACC
 TGACAAATCCTAGCGAATTTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTG
 TGCTTCCCGCACAGCTGCAGCCATGGGGTCTGAGGACCACGGCGCCAGAACCCAGCTG
 TAAAATCATGACGTTTCGCCAACCATGGAAGAATTTAAAGACTTCAACAAATACGTGGC
 CTACATAGAGTCGCAGGGAGCCACCGGGCGGGCTGGCCAAGATCATCCCCCGAAGGA
 GTGGAAGCCGCGGACAGTATGATGACATCGACGACGTGGTGTATCCCGGCGCCATCCA
 GCAGGTGGTGACGGCCAGTCGGGCCTTTCACGCAGTACAATATCCAGAAGAAGGCCAT
 GACAGTGGGCGAGTACCGCCGCTGGCCAACAGCGAGAAGTACTGTACCCCGCGGCCA
 GGACTTTGACGACCTTGAACGCAATACTGGAAGAACCTCACCTTGTCTCCCCGATCTA
 CGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCAGTGGAAACATCGGGAG
 CCTCCGGACCATCTGGACATGGTGGAGCGGAGTGCGGCACCATCATCGAGGGCGTGAA
 CACGCCCTACCTGTACTTCGGCATGTGGAAGACCCTTCGCCTGGCACCCGAGGACAT
 GGACCTGTACAGCATCAACTACCTGCACCTTTGGGGAGCCTAAGTCTGGTACGCCATCCC
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 GGGCTGCGACGCCTTCTGCGGCATAAGATGACCCTCATCTCGCCATCATCCTGAAGAA
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 CACCCTGCGGTGATTGACTACGGCAAAGTGGCCACTCAGTGCACGTGCCGGAAGGACAT
 GGTCAAGATCTCCATGGACGTGTTCTGTCGCATCCTGCAGCCGAGCGCTACGAGCTGTG
 GAAGCAGGGCAAGGACCTCACGGTGTGGACCACACGCGGCCACGGCGCTCACCAGCCC
 CGAGCTGAGCTCCTGGAGTGCCTCCCGGCTCGCTGAAGCCAAGCTCCTCCGAGGTC
 TCACCGGAAACGGAGCCAGCCAAAGAAGCCGAAGCCGAAGACCCCAAGTTCCCTGGGGA
 GGGTACGGCTGGGCAGCGCTCCTAGAGGAGGCTGGGGCAGCGTGAAGGAGGAGGCTGG
 GCCGGAGGTTGACCCGAGGAGGAGGAGGAGGAGCCGACCCACTGCCACACGGCCGGGA
 GGCCGAGGGCGCAGAAGAGGACGGGAGGGCAAGCTGCGGCCAACCAAGCCAAGAGCGA



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GCGGAAGAAGAAGAGCTTCGGCCTGCTGCCCCACAGCTGCCGCCCCGCTGCTCACTT
 CCCCTCAGAGGAGGCGCTGTGGCTGCCATCCCCACTGGAGCCCCGCTGCTGGGCCAGG
 CCCTGCAGCCATGGAGGAGAGCCCCCTGCCGGCACCCCTTAATGTCTGCCCCCTGAGGT
 GCCCAGTGAGGAGCTAGAGGCCAAGCCTCGGCCATCATCCCCATGTGTACGTGGTGCC
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 TGTTTTAAATATTATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGA
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 CACTCTGTGCCTGCTGGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTGGC
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 TCTCTCCTGGGGTTGTCTATCTTTGTTTCTCTCACCTGAGAGAAACGCAGGTGTTCCAG
 AGGCTTCTTGCAGACAAAGCACCCCTGCACCTCCTATGGCTCAGGATGAGGGAGCCCC
 CAGGCCCTTCTGGTTGGTAGTGTGGACAGCTTCCCAGCTTTCGGGTACAACCTG
 AGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCTTCCGGGCCCCCTTTCGCTGCTCCGG
 GCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCAGCTGTGTACCTGAGGGGAA
 TCTGCTTCTTAGGAGTGGGTTGAGCTGATAGAGAAAAACGGCCTTACGCCAGGCTGGG

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AAGCGCCTTCTCCAGGTGCCTCTCCCTCACCAGCTCTGCACCCCTCTGGGGAGCCTTCCC
CACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAATTTGCTTATATTA
CAAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCCATCA
CTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTC
GGGAGGCTGTGGTGGGAGATTGCTTGAGTCCAGGAGTTGAGGCTGCAGTCAGCTCAGA
TTGCACCACTGCACTCCAGCCTGGGCAACAGAGCGAGACCCTGTCTCCAAAAAAAAAAAA
AA
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Restriction Sites: Please inquire

ACCN: NM_015015

Insert Size: 5000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_015015.1.

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_015015.1](#), [NP_055830.1](#)

RefSeq Size: 5595 bp

RefSeq ORF: 3291 bp

Locus ID: 23030

UniProt ID: [O94953](#)

Cytogenetics: 19p13.3

Protein Families: Druggable Genome

Gene Summary:

Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. Demethylation of Lys residue generates formaldehyde and succinate. [UniProtKB/Swiss-Prot Function]