

Product datasheet for **SC311431**

KDM5A (NM_001042603) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: KDM5A (NM_001042603) Human Untagged Clone
Tag: Tag Free
Symbol: KDM5A
Synonyms: RBBP-2; RBBP2; RBP2
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001042603 edited
 ATGGCGGGCGTGGGGCCGGGGGCTACGCGGCGGAGTTCGTGCCACCCAGAGTCCCC
 GTCTTTGAGCCGAGTTGGGAGGAGTTCACAGATCCGCTCAGCTTTATCGGCCGCATCCGG
 CCTTTGGCGGAGAAAACCGGCATCTGCAAATTCGGCCGCCAAGGACTGGCAGCCTCCA
 TTTGCCTGTGAAGTAAAAAGCTTTCGTTTCACTCCAAGAGTCCAGCGCCTGAATGAACCT
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 AAGACATGGTATGGTGTGCCATCTCATGCTGCAGAGCAACTGGAGGAGGTGATGAGAGAG



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CTGCCCCCGAGTTATTTGAATCCCAGCCTGATCTTCTGCATCAGTTAGTTACCATCATG
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GAGTTTGTGTGACATTTCTCGTGCCTATCACTCTGGATTTAACAGGGCTACAACCTTT
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AAGCAGGGGCCAGTTAGCCCAGGTCCAGCACCACCTCCTTCCTTCATAATGAGCTACAAA
CTACCAATGGAGGATCTTAAAGAGACCAGTTAG
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Restriction Sites: Please inquire

ACCN: NM_001042603

Insert Size: 6500 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 open reading frame of this clone has been fully sequenced and found three SNPs within the protein associated with this reference, NM_001042603.1.

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_001042603.1](#), [NP_001036068.1](#)

RefSeq Size: 10835 bp

RefSeq ORF: 5073 bp

Locus ID: 5927

UniProt ID: [P29375](#)

Cytogenetics: 12p13.33

Protein Families: Druggable Genome

Gene Summary:

This gene encodes a member of the Jumonji, AT-rich interactive domain 1 (JARID1) histone demethylase protein family. The encoded protein plays a role in gene regulation through the histone code by specifically demethylating lysine 4 of histone H3. The encoded protein interacts with many other proteins, including retinoblastoma protein, and is implicated in the transcriptional regulation of Hox genes and cytokines. This gene may play a role in tumor progression. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer isoform (1).