

## Product datasheet for **SC321310**

### KDM4A (NM\_014663) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KDM4A (NM_014663) Human Untagged Clone
Tag:	Tag Free
Symbol:	KDM4A
Synonyms:	JHDM3A; JMJD2; JMJD2A; TDRD14A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_014663.2  
GGAGTTTCGGCCTTCGCCTGCTGGAAAAGCAGTAGGATCGGCCAGTGGCGACAGCAGGAG  
CTGAGCCTAAGCCCTGGCGGGCTTTGGGCTGTAGATTCTGTCTGACTAAAGGGACCTC  
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ATGAGGAGGAAGAACAAGAAGCAGCTGCCTTGGATCTTTCTGTGAATCCTGCGTCTGTAG
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TCCAGGCAAGAGCACTCTGGGTTCCACAGCACAGCAGACATGGAACGCTGAAGTCTCTGA
AAGTGAAGTTGTA AAAAAGAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_014663
- 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\\_014663.2](#), [NP\\_055478.2](#)

**RefSeq Size:** 4526 bp

**RefSeq ORF:** 3195 bp

**Locus ID:** 9682

**UniProt ID:** [O75164](#)

**Cytogenetics:** 1p34.2-p34.1

**Domains:** PHD, TUDOR, JmjC, JmjN

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein containing a JmjN domain, a JmjC domain, a JD2H domain, two TUDOR domains, and two PHD-type zinc fingers. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form, and as a transcriptional repressor. [provided by RefSeq, Apr 2009]