

## Product datasheet for **SC327268**

### **KDM4C (NM\_001146694) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KDM4C (NM_001146694) Human Untagged Clone
Tag:	Tag Free
Symbol:	KDM4C
Synonyms:	bA146B14.1; GASC1; JHDM3C; JMJD2C; TDRD14C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001146694, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGTGGCCGAGGTGAAAGTCCTCTGAACCCAGCTGTAAGATAATGACCTTCAGA
CCCTCCATGGAGGAGTTCGGGAGTTCAACAAATACCTTGCATACATGGAGTCTAAAGGA
GCCCATCGTGCGGGTCTTGCAAAGGTGATTCTCCTAAGGAGTGGAAGCCAAGACAGTGC
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TCAGGACTGTTCACTCAGTACAACATCCAGAAAAAGCGATGACTGTGAAGGAGTTCAGG
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CGCAAGTACTGGAAGAATTAACTTTTGTGGCACCTATCTATGGTGCAGATATTAATGGG
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GTGGTTGAAGAAGAGTGTGGCATTCTATTGAGGGTGTAAATACCCCATATCTCTATTTT
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CTTGAAAGACTAGCTCAAGGTTTTTCCCAAGCAGCTCCCAAGGGTGTGATGCATTTCTT
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AAAAGGCCTAAGGCTGATGAGGAAGAGGAAGTGTGAGTGAAGTGCATGGGGCAGAGGTC
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AAGCTGAGGAACACAGAAGCATCTTCAGAAGAAGAGTCTCTGCTAGCAGGATGCAGGTG
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ACAGAAGACATAAAAAGTGAAGGATGACAAAGCTTATGCATATAGAAGTGTACCTTCTATA
TCCAGTGAGGCTGATGATTCCATTCCATTGTCTAGTGGCTATGAGAAGCCCGAGAAATCA

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GACCCATCCGAGCTTTCATGGCCAAAGTCACCTGAGTCATGCTCATCAGTGGCAGAGAGT  
 AATGGTGTGTTAACAGAGGGAGAAGAGAGTGATGTGGAGAGCCATGGGAATGGCCTTGAA  
 CCTGGGAAAATCCCAGCGGTCCCCAGTGGAGAGAGAAATAGCTTCAAAGTCCCCAGTATA  
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 CTGTCCATTGAGGAGGAAGTGGAAAGAAACAGAGTCTTGGGCGAAACCTCTCATCCACCTT  
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 AATATTGCCACATGTACCAGTTGAGTTGAAGATGGATCCCAGATAGCAATGAAGAGA  
 GAGGACATCTACACTTTAGATGAAGAGTTACCAAGAGAGTGAAAGCTCGATTTGTAAGT  
 GCTGGCAGATGCCACTTGGGGACCTGCCAAGTGAATTCCTTGTCTCACCTCATGTTTCC  
 CAAGCCCAGCAGAAACATACTTGGGCTTTTGGATTAATTCTAAAAAAGCCAATGCAAC  
 ATTTTCTTAGTGGAACCTAT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001146694

**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\\_001146694.1](#), [NP\\_001140166.1](#)

RefSeq Size: 4616 bp

RefSeq ORF: 3144 bp

Locus ID: 23081

Cytogenetics: 9p24.1

Protein Families: Druggable Genome, Transcription Factors

**Gene Summary:** This gene is a member of the Jumonji domain 2 (JMJD2) family. The encoded protein is a trimethylation-specific demethylase, and converts specific trimethylated histone residues to the dimethylated form. This enzymatic action regulates gene expression and chromosome segregation. Chromosomal aberrations and changes in expression of this gene may be found in tumor cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region compared to variant 1, that results in a frameshift. It encodes isoform 2, which has a shorter and distinct C-terminus compared to isoform 1.