

Product datasheet for **SC313849**

KDM4D (NM_018039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM4D (NM_018039) Human Untagged Clone
Tag:	Tag Free
Symbol:	KDM4D
Synonyms:	JMJD2D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_018039 edited
GAAAAGGATTACACCAAAGTGTAAATCCAACGACTCCTGCTTCCATCCTTTCTCCTGA
GCTAGAACCAACAACCTAGAGAGTTGGGCTTCGGAAAACTAGTGTTCATTTAATTG
GATATGAAGAAAGAACAAATATGTACGGGGCAACCACGATCTTACAAAGAACATAAGTT
CCAGGAAAGCAGGAACCTTGTCTCTCTTGTCTACTGGGTGATCCTCTGCATATAGAACA
GTGCCCTGGCACATAATAGGTGCTGAATTTTGTCTAAACACTGAGGACATTCTCTGTCTAC
ATTTGGGTCTGACCCCAAGTCTGAGTAATCAATAGACTTAAGAAGACAGAGCCAGCA
GCAACCGAAACATAACAGAGTTGCAGGATCAGCTAACGTCAATGCCTGGGCAAAGCTGCT
GCCAGAGTGGAATCTCACTAGTGAATAACAAGCCCAAGAAAGATTATCATCTCATTTG
CAAAAAAAAAAGTACGCTGGTAGATCCTGCTACCTCATAGATAACACCAGTCAAATTTTT
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TACTGCTTATTAATGGAACTATGAAGTCTAAGGCCAACTGTGCCAGAATCCAAATT
GTAACATAATGATATTTTCCATCAACCAAGAAGAGTTAATGATTTTGATAAATATATTG
CTTACATGGAATCCCAAGGTGCACACAGAGCTGGCTTGGCTAAGATAATCCACCCAAAG
AATGGAAGCCAGAGAGACTATGATAATATCAGTGAAATCTTAATAGCCACTCCCTCC
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TGACTGTGGGGGAGTATCGCCATTTGGCAAACAGTAAAAAATATCAGACTCCACCACACC
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CCCCTGGTCCATCTGCACAGATTATCCACCCGTCAAATGGCAGACGTGGTGTGTCGCC
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TGAGTATTTTCAATTTTGCATATTTTGTCTTCTTACCAGCCTGGAATGTCTTTGG
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ACTGTGGAAGCTGCTGCACTTGTGAAGAATCCTGAGCTTTGATTCTTCTCAGTCTACGC
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AAGGTGAGTAGAGTTCCAGAATAAAAGATATGACTTTTCTGAGTTATTTATGTACTTAAA
ATATGTTGTACAGTATTTGTTCCAAAATATTTAAAGGTAACCAAAATGTTAAAAAAA
AAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018039 unedited ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGNAGCGTGNAAAAGGATTA CACCAAAGTGTAAATCCAACGACTCCTGCTTCCATCCTTTCTCCTGAGCTAGAACCAA CAAACCTAGAGAGTTGGGCTTCGGAAAACTAGTGTTCATTTAATTGGATATGAAGAA AGAACAAATATGTACGGGGCAACCACGATCTTTACAAAGAACATAAGTTCAGGAAAGCA GGAACCTTGTCTCTCTTGTCTACTGGGTGATCCTCTGCATATAGAACAGTGCCTGGCAC ATAATAGGTGCTGAATTTTGTCTAAACACTGAGGACATTCTCTGCTACATTTGGGTGCT ACCCCCAGGTCTGAGTAATTCAATAGACTTAAGAAGACAGAGCCAGCAGCAACCGAAAC ATAACAGAGTTGCAGGATCAGCTAACGTCAATGCCTGGGCAAAGCTGCTGCCCAGAGTGG AATCTCACTAGTGAATAAACAAGCCCAAGAAAGATTATCATCTCATTTCGAAAAAAAAA GTACGCTGGTAGATCCTGCTACCTCATAGATAACACCAGTCAAATTTTTTTTTAAAGTAG CATTTTCTACATTGTCAACTATCTAGAACATACTAAAATAAGAGTTTACTGCTTATT AAATGGAACTATGAAGTCTAAGCCAACTGTGCCAGAATCAAATTGTAACATAATGA TATTTTCATCCAACCAAGNAAGATTNAATGATTNTGATAATATATTGCTACATGGATCCCA AGGTGCCACAGAGCTGGCTGGCTAGATANTNCACCAAGATGGGAAGCAGAGAGACTATG TATATCAGTGAATCTATAGCCCTCCCTNNCACAGTGGCTCTGGCGCCAGGGGGTCTCT CATACTAAAAGAAGCTTGTGGNGGAAGTTCGCATTC
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018039 unedited CGGCGAAGGCACCTTCAGGGCCGGAAGGCACCTGGGGAGGGGTTACAGGGATGCCACCC GGGATCTGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTTTCGAGCTTTTTTTT TTTTTTTTTAACATTTTGGTTACCTTTAATATATTTGGGAACAATACTGTGACAACAT ATTTTAAGTACATAAATAACTCAAAAAAGTCATATCTTTTATTCTGGAACCTACTGACC TTATCTGTATAAAGAACCTAGTTTTATAAGAAAAAGGGGGTGAGGGAGGGGAAGAGAGAA ATGCGTAGACTGAAGAGGAATCAAAGCTCAGGATCTTCACAAGTGCAGCAGCTCCACA GTTGGCCAGAGGATGGTAGTTGCATATACCAGGTTACGCTAACCTCAACAAGACCTAGT TCTCACACAAAATGTGTCCAGTGGATAAAACCTCAGTGCAGAAATAGATTTTAGCAAT ATCCAAAGACATTCCAGGGTCCGGTAGGAAGAACAAGATATGGCAAAATGAAAACCTAC CATGGACTTGGCAGCATCCAAGGCATCACCAGGGGGGCTCTTTCATGCATGCCTAGAGT CCTGCAAACTCAACCAAAGTTTTGGGATGTAATGTAACAGTTTCATCAAACTGTCACA CAGCAGGGCAGTGGGATATAAGACAGCCCGTGACTTAGGGCACAGGGGCCAGCTGCA CCCAGAAGCCTTGACAGGATGCTGGAGCCCTGGGCTCAGTGGTACAGGCTTGTCCATCAA AGCCCCATCCTCAGTAGGGGCTCATGTTCTGGGCCGAAGCTGTGCATGTTGTGCCCGCC AGAGGGGCTCTGCTGGAGTCTGGAGGGTCTGACTCTCAGTTTCTGAGGAGGCG ACCACGACCAGTCTGCCATTGACGGTGGATAATCTGTGCAGATGACCAGGGTGTATGATG GAGTTGA
Restriction Sites:	NotI-NotI
ACCN:	NM_018039
Insert Size:	2800 bp
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:	The open reading frame of this TrueClone was fully sequenced and found to have a single conservative amino acid difference from the protein associated to this reference.
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_018039.2](#), [NP_060509.2](#)

RefSeq Size: 2988 bp

RefSeq ORF: 1572 bp

Locus ID: 55693

UniProt ID: [Q6B0I6](#)

Cytogenetics: 11q21

Gene Summary: Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Demethylates both di- and trimethylated H3 'Lys-9' residue, while it has no activity on monomethylated residues. Demethylation of Lys residue generates formaldehyde and succinate.[UniProtKB/Swiss-Prot Function]