

Product datasheet for **SC310699**

JHDM1D (KDM7A) (NM_030647) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | JHDM1D (KDM7A) (NM_030647) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | JHDM1D |
| Synonyms: | JHDM1D |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

Fully Sequenced ORF:

>OriGene sequence for NM_030647 edited
 ATGGCCGGAGCGGCGGGCGGTGGCCGGGAGCAGCAGCTGGAGCCGCCGCGGCAGCC
 GTGTGGTGGCGGCTCCCGGCGGGCCTCGGCGCCTCCGCCGCCCGCCCGTGTACTGT
 GTGTGCCGGCAGCCGTACGACGTGAACCCTTCATGATCGAGTGCATATCTGCAAGGAC
 TGGTCCACGGCAGCTGTGTTGGAGTAGAAGAATCATGCTGTTGACATTGACCTGTAT
 CACTGTCCCAACTGTGCAGTTTTACATGGTTCCCTTGATGAAAAAAGGAGGAAGTGG
 CACAGACATGACTACACAGAAATTGATGATGGTCCAAACCAGTCAAGCTGGAAGTGA
 ACTTTCATTAAGGAATTACGCTCTCGAGTCTTCCCAAGTGCCGATGAAATAATTATAAG
 ATGCATGGCAGCCAGCTGACACAAAGATATCTGGAGAAACATGGATTTGATGTCCCTATT
 ATGGTCCCAAAATTAGATGATCTAGGACTCAGGCTCCCTTACCTACATTTTCTGTGATG
 GATGTGGAACGTTATGTAGTGGTGACAAAGTATAGATGTCATTGATGTGGCAGGCAG
 GCAGACAGCAAAATGACACTTCACAATTATGTTAAATACTTCATGAATCCTAACAGACCA
 AAAGTGTAAATGTGATCAGCCTTGAATTTTTCAGATACAAAGATGTCTGAATTGGTGGAG
 GTCCTGATATAGCCAAAAAATTTCTGGGTGAAAAATTATTGGCCAGATGATTACGTC
 TTTCCCAAGCCATTTGTTTCAGAAATATTGCTTAATGGGAGTTCAAGACAGCTATACAGAT
 TTCCACATTGACTTCGGTGGAACTTCAGTCTGGTACCATGTCCTCTGGGGTGAGAAGATT
 TTTTATTAATAAAGCCAACAGATGAAAAATTTGGCACGTTATGAATCTTGGAGTTCATCT
 GTGACCCAGAGTGAGGTGTTCTTTGGAGATAAGGTGGATAAAATGCTACAAATGTGTGGTA
 AAGCAGGGACATACCTTATTTGTTTCTACAGGGTGGATCCATGCTGTGCTCACTTCTCAG
 GACTGTATGGCTTTTGGGGGAACCTTCTGCACAACCTTAACATTGGCATGCAGCTCAGG
 TGTTATGAGATGGAGAAAAGGCTAAAAACACCAGATCTTTTCAAATTCCTTTCTTTGAA
 GCCATATGTTGGTTTGTAGCCAAAAACTTGCTGAAACCCTGAAAGAAGTGAAGAGAAGT
 GCTTTCCAGCTCAAACCTTACCTAGTACAGGGAGTGAAGCAGTGCATCTGCTTTAAAA
 TTATGGATGAAAAAAGAACTTGTATCTGAACATGCCTTTGAAATTCAGACAATGTTAGA
 CCTGGACACCTTATTAAGAAGCTTTCTAAAGTAATTCGAGCAATAGAGGAGGAAAACGGC
 AAACCAGTTAAATCTCAGGGAATCCTATTGTGTGTCCAGTTTACAGTCTCAAATGAA
 GCAACTTCCCATACCATTCCCGAAGAAAGATGAGGAACTTCGAGATCATAATGTCCGA
 ACTCCTTCTAACCTAGACATCCTAGAGCTCCACACAAGGGAGTCTCAAAGATTAGAG
 ATGTGTCCATGGGAAGAGGACATCTTGAGCTCTAACTGAATGGAAAATCAACAAACAT
 CTCCAACCATCTCCACAGTACCTGAATGGAGAGCGAAAGATAATGATCTACGATTACTG
 CTGACAAATGGAAGAATAATTAAGATGAAAGGCAGCCCTTTGCAGATCAAAGTCTTTAT
 ACAGCAGATAGTAAAAATGAAGAGGATAAAAAGAAGGACAAAAAAGGCAAAATGAAGATA
 GAAGAGAGTTCAGGAGTAGAGGGAGTGGAAACATGAAGAATCTCAAAAACCACTGAATGGG
 TTTTTTACACGTGTGAAATCAGAACTCAGGAGTAGATCATCAGGATATTCTGATATTTCT
 GAGTCAGAAGACTCCGGACCCGAGTGCAGTGCAGTGAAGATATCTTTACCAGTGAAGAG
 TCTGAAAGTTCAGGTGATGAAAAGAAACAAGAAATAACATCCAACCTTAAGGAGGAATCT
 AATGTGATGAGGAACCTCCTTCAAAGAGCCAGAAGCCATCTAGAAGTGAATTTCCAATT
 AAAAGGGAATGCTCCTACCTCGACGAGCACAGAGGAAGAAGCTATTCAAGGCATGCTGTCT
 ATGGCAGGGTTGCAGTATTCCACGTGTTTACAAAGGCAAATACAAGCACAGACTGCAGT
 GGTGAAAGAACTCTCTCCAGGATCCCAGCAGCTGCCATGGCAGTAACCATGAGGTTAGG
 CAGTTGTATCGCTATGATAAACCAGTGGAAATGTGGATACCATGTCAAGACTGAAGATCCA
 GACTTGAGGACTTCTCCTGGATTAACAGTTTGATACTTCCAGATTTTCCTCAGGAT
 CTAAGTAGAAGCCAGAAATGCATCAGAAAGGAAGTTTCATCAGAAATTAGTCAGAGGGTA
 CAAAGTAGGAATTATGTGGACAGCAGCGGCTCAAGCCTTCAAGATGGAAGTATATGCAG
 AATTCAAACCTGACTTCGGGGCGTGCCAGATAAGTAATGGCAGTCTAAGCCAGAAAGG
 CCAGTTGGTGAACCTTCTTCTCGGTGCCCTTCAACCCACCAAGAGACCGGCATCAAAT
 CCACCACCTATCAGCAACCAGGCAACAAAAGGTAACCGTCAAAAAAAGGAATGGCAACA
 GCCAAACACGTCTTGGGAAGATCCTTAAGTTGAACAGAAATGGCCATGCAGTTTCTTT
 GTGTGA

Restriction Sites:

Please inquire

| | |
|-------------------------------|--|
| ACCN: | NM_030647 |
| 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: | 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: | <ol style="list-style-type: none">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: | <u>NM_030647.1</u> , <u>NP_085150.1</u> |
| RefSeq Size: | 9178 bp |
| RefSeq ORF: | 2826 bp |
| Locus ID: | 80853 |
| UniProt ID: | <u>Q6ZMT4</u> |
| Cytogenetics: | 7q34 |
| Gene Summary: | Histone demethylase required for brain development. Specifically demethylates dimethylated 'Lys-9' and 'Lys-27' (H3K9me2 and H3K27me2, respectively) of histone H3 and monomethylated histone H4 'Lys-20' residue (H4K20Me1), thereby playing a central role in histone code. Specifically binds trimethylated 'Lys-4' of histone H3 (H3K4me3), affecting histone demethylase specificity: in presence of H3K4me3, it has no demethylase activity toward H3K9me2, while it has high activity toward H3K27me2. Demethylates H3K9me2 in absence of H3K4me3. Has activity toward H4K20Me1 only when nucleosome is used as a substrate and when not histone octamer is used as substrate.[UniProtKB/Swiss-Prot Function] |