

Product datasheet for **MC224671**

Kdm5d (NM_011419) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm5d (NM_011419) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kdm5d
Synonyms:	HY; Jarid1d; Smcy
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224671 representing NM_011419 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGCCAGGATCTGACGACTTCTACCGCCGCTGAGTGCCCTGTGTTTGAGCCCAGTTGGGCGGAAT
TCCGCGATCCTCTGGCTATATAGCTAAAATCAGACCCATTGCGGAGAAAATCAGGCATTTGCAAGATACG
CCCACCTGCGGATTGGCAACCTCCTTTTGTGTAGAAAGTTGATAACTTCAGATTTACTCCTCGAATTCAG
AGGCTAAATGAACTGGAGGCCAGACCAGAGTAAACTGAACTATTTGGATCAGATTGCAAAGTTCTGGG
AAATTCAGGTTCTTCTTAAAGATACCTAATGTGGAGAGGAAGATCTTGACCTTTACAGCCTTAATAA
GATTGTGATGGAGGAAGGTGGATATGAAGCAATCTGCAAGGACCGTCGGTGGGCCGTGTTGCCAACGC
CTTAATTACCCATCAGGGAAAAACATTGGTTCCCTGCTTCGGTCCCACTACGAACGGATCATTTACCCCTT
ATGAAATATTCAGTCTGGAGCTAATCTTGTGCAATGTAACACAGATCCATTTGACAGTGAAGAAAGAGA
CAAGGAATACAAACCTCATAGCATTCTCTTAGACAGTCTGTTGAGCCATCAAAATTCAGTTGCTACAGT
AGACGAGGAAAAAGGCTACAGCCTGAGCCAGAACCACAGAAGAAGACATTGAGAAAAACCCAGAGCTAA
AGAAACTACAGATATATGGGGCAGGCCCAAGATGATAGGCTTGGGCCCAAGGCTAAGGAGAAAACTCT
GAGAAAGAAAGATAGCAACAACAGATAAAGAAGAAGTGACATGCCCTGCAACTATTGTAGTGAAGGGG
GAAGCCAGTGAGTTTGGAAAGGTGACATCAGCATTTCAGACAAGAACTAAATCACAGTTTTGAACCTT
GTATGAAGATGACTATGCAGCTACGGAACAATCACAGCAGTACCCAGTTTATGAATTCATATGTTTGCCG
AATATGCTCTCGTGGGATGAAGTCGATAAGTTTCTGCTCTGTGATGGCTGCAGTGATAATTACCACATC
TTTTGCCTATTGCCACCGCTTTCTGAAGTCCCCAAGGGAGTATGGAGATGCCGAAGTGTATCTTAGCAG
AGTGAAGAGTCCCCTGAAGCTTTTGGCTTTGAGCAGGCTACACAGGAGTATACTTTGCAGAGTTTGG
TGAGATGGCTGACTCCTCAAGGCTGACTACTTCAACATGCCTGTGCATATGGTACCTACAGAAGTTGTG
GAAAAGGAATTCTGGAGGCTGGTGAGCAGCATTGAGGAGGATGTGACAGTTGAATATGGAGCAGACATTC
ACTCCAAAGAATTTGGCAGTGGGTTTCCCTGTCAACAATAGCAAAATGGGACTTATCTCCTGAAGAAAAGGA
ATATGCTGCTTGTGGTTGGAATCTCAATGTGATGCCAGTGTGGATCAGTCTGTTCTCTGCCACATCAAT
GCAGACATCTCAGGCATGAAAGTGCCCTGGTTATATGTGGCATGGTGTTCAGCATTTTGTGGCATA



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TTGAGGATCACTGGAGTTATTCCATTAACCTACCTGCACTGGGGTGAACCAAAGACCTGGTATGGAGTACC
 TTCGCTAGCAGCAGAACAACCTTAGAGGATGTAATGAAGAGACTTACACCAGAGTTGTTTGACAGCCAACT
 GACCTCCTGCACCAACTTGTCACTCTGATGAATCCTAACACTCTCATGTCACATGGAGTGCCAGTTGTTCC
 GTACAAACCAGTGTGCAGGGGAATTTGTCATTACTTTCCCGTGCTTACCACAGTGGCTTTAACCAAGG
 CTAACTTTGCTGAGGCAGTGAACCTTTGCACTGCCGATTGGCTACCTGTTGGACGCCAGTGTATTGAA
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 CAGAGAAGTTGGATCTAAATCTAGCAGTGGCAGTTCACAAGGAGATGTTTCATTATGGTACAGGAGGAGCG
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 GATGATGAGCGTCAGTGCATCAAGTGTAAAGACCAGTGTTCCTATCAGCCTTGCCCTGTTATGACTGTC
 CAGATAGTCTTGTCTGCCTTTCCCATATCAATGATCTGTGCAAGTGTCAAGGAATCGACAGTACTTACG
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 AACTGGGCCAACAAAGTACAAGCAGCCCTAGAGGTGGAGGATGGTCGAAACGGAGTTTTGAAGAGCTAA
 GAGCATTGGAATCTGAGGCTCGTATAGACGATTTCTAATAGTGAAGTGTCTCAGCGATTGAAGAAATG
 CCTAACTGAAGCAGAGGCTTGTATTTCCCAAGTCTTGGACTGATCAGTAACTCAGAGGACAGGTTACAA
 ACACCGCAAATCACCTTACTGAACTACAGCTTCTTCTCAAACAGATGGGCACTCTGCCCTGACCATGC
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 TGGCTCCCTCAGGCCAGAGGCACTCTTTGGTTATCATGAAGAAGCTTTTAGTTATGGGAACCAAGGTAGC
 CTCCAGCCCTTCTGTGAACAAAGCTCGAGCAGAGTTACAAGAAGTGTGACTATTGCAGAATGTTGGGAG
 GAAAAGGCCCATTTTTGCTTAAAAGCTAGCCAAAAGCATTTCTCCAGCCACTTTGGAAGTTATAATACGTG
 AGGCAGAAAACATCCCTGTCTACCTACCTAACATCCAGTCTCTGAAGGAAGCTGTACTAAGGCAGAGGC
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 CACATTCTGAAAGAGAAAGCTTCTAAGACTTTTCTTAAGAAGAATTCTTGCTACACATTGTTGGAGGT
 TCTCTGCCATGTGCAGATGCTGGTTCACTCAGCACCAAGCGCAGTCGGTGGATTGAAAAGGAGATGGGA
 TTATACAAATATGACACAGAATTGCTGGGGCTGTCTGCACAGGACCTCAGGGACCCAGGGTCTGTGATCA
 TGGCCTTTAAGGAAGGGGAAGAGAAAAGAAAAGGATCTTGGCACTTACGTACATCAACTCAGCCAA
 GCCCAGTCCAATGTCCTCATCGATGAATGCCTCTGCAACCTCCATCTGTATATGTGGCAGGTCTGTGCA
 GGAGTGGAACTCTGTCAGTGTGATCTTTGTCATGACTGGTCCATGGACAATGTGTGACTGTACCCACC
 TACTCAGCTCAGTAAGGGCCAGTCATACCTCATCTCAACTGCTAGCTTGGTGGGAATGGGACACCAAGTT
 CCTGTGCCCACTGTGCATGCGATCAAGGCGTCCACGCCTGGAGACCATCTTGTCAATTGCTGGTAGGACTA
 CAGAGACTGTCTGTAAGGCTACCTGAGGGTGGGGCCACAGTGCCTCACAGAGAGGCCATTGGTTGGC
 AAGGCCGTGCCAGGCAGGCTCTAGCTTCTGAGGATGTGACTGCTTTGTTGAAACAGCTGGAAAAATCCCG
 CCAACAACCTACAGGATGAATTGAGACATAAGAAGCCCCCTACCTTGCCTTCAAGGCTTTGCCTTTGACTGT
 CTCACAGAGAATAGTGGCAAGGATATCCTTAAGGAAGAGGAGGAGTTGGTACTAAATGAAGAAAGGATTA
 AAAGTTCTGAGAAGATTGTTCCAAAGGAAAGTTTCAATGTAAGGAGATAAGGAACTGCTGCCTTCACTTTT
 ATCCCAATTAAGTGGCCAGTACTGGAAGTGCCTGAAGCCACCCGGCACCCCTAGAGGAGCTTATGATG
 GAAGGAGATCTACTTGAAGTTACCCTAGATGAGAACTACAGCATTGGCAGCTGCTGCAGGCTGGGCAGA
 ATCCCAATCTAGAGCGCATTATACACTTCTGGAGCTTGAAGAAGCCTGAAAACCCAGGAAATTGGTCAGA
 GGAACAGACACCAGAGAGGCGACGGCAGAGGAGGCAAAAGGTGGTTCTGAGTAGAAAAGGGTGGAGTTTT
 ACTCAAAAAGAGCTAGAATCAAAAAGAGTCAAGAGTTCAGGATTAAGCCTAAGGAAGAAAAGTTTCAAA
 AGCCAATACTTGGGGATAATGTGCTGTACACACACCATACAGAACATACAAAACATCTTAAAAGAGCACAT
 AAACAGTGTACAAGGAAAGGATCCAAGCCCTTCTTCTTTTCTTCTTAAACACCTTTACTACACCTA
 TCTTATTTTCATCAGCAAAAATTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_011419

Insert Size:	4647 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).
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:	NM_011419.3 , NP_035549.1
RefSeq Size:	5471 bp
RefSeq ORF:	4647 bp
Locus ID:	20592
UniProt ID:	Q62240
Cytogenetics:	Ypter
Gene Summary:	Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. May play a role in spermatogenesis. Involved in transcriptional repression of diverse metastasis-associated genes; in this function seems to cooperate with ZMYND8. Suppresses prostate cancer cell invasion. Regulates androgen receptor (AR) transcriptional activity by demethylating H3K4me3 active transcription marks (By similarity). [UniProtKB/Swiss-Prot Function]