

Product datasheet for MC224670

Kdm5c (NM_013668) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm5c (NM_013668) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kdm5c
Synonyms:	D930009K15Rik; Jarid1c; mKIAA0234; Smcx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224670 representing NM_013668 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGGGGTCCGACGATTTCTACCGCCGCGGAGTGTCCGGTGTTCGAGCCTAGCTGGGCCGAGT
TCCGAGACCTCTTGGCTACATCGCGAAAATCAGACCCATCGCCGAGAAGTCCGGCATTGCAAGATCCG
CCCACCCGCGGACTGGCAGCCACCCTTTGCCGTGGAAGTGGATAACTTCAGGTTTACTCCCCGAATCCAG
AGGTTGAATGAGCTGGAGGCCAGACAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
AGATCCAGGGCTCATCCTTAAAGATTCCCAATGTAGAACGGCGGATCTTGGACCTCTATAGCCTCAGCAA
AATTGTGGTGGAAAGAAGGTGTTATGAAACTATCTGCAAGGACCGTCGATGGGCCGTGTGCCCCAGCGT
CTCAACTACCCACCTGGCAAAAACATTGGTTCCTTGTCTACGCTCTCACTATGAACGCATTGTTTATCCCT
ATGAAATGTACCACTCTGGAGCCAACTTGTGCAGTGTAAACACACGCCCATTTGATAATGAGGAAAAGGA
CAAGGAATATAAACCCACAGCATCCCCCTTCGACAGTCTGTGCAGCCTTCCAAGTTCAACAGTTATGGA
CGACGGGCAAAGAGACTACAGCCTGATCCGGAACCCACAGAGGAAGACATTGAAAAGAATCCAGAAGTGA
AGAAATTACAGATATATGGAGCAGGCCCAAGATGATGGGGCTGGGCCTAATGGCCAAAGATAAGACTCT
GCGGAAAAAAGATAAAGAAGGGCCTGAGTGTCCCCCACTGTGGTGGTAAAGGAGGAATTAGGTGGGGAT
GTCAAGATGGAATCAACCTCACCAAGACCTTCTAGAAGGCAAGGAGGAAGTGAAGTGAAGTGAAGTGAAGT
CCTGCACCAAGATGACCATGAGGCTTGAAGGAAACACAGCAATGCCAGTTTATTGAGTCATACGTATG
CCGAATGTGTTCCCGAGGAGATGAAGATGACAACTCTTACTGTGTGATGGCTGTGATGACAATTACCAC
ATCTTTTGCCTGCTGCCTCCTTTGCCTGAAATCCCGAAAGGTGTCTGGAGGTGTCCAAAGTGTGTCATGG
CGGAGTGAAGCGGCCCTGAAGCCTTGGCTTTGAGCAAGCTACCCGGAATATACTCTGCAGAGCTT
TGGAGAGATGGCTGACTCCTTTAAAGCTGACTACTTCAACATGCCTGTGCATATGGTACCCACAGAAGT
GTAGAGAAGGAGTTTGGCGGCTGGTGAATAGCATCGAGGAAGACGTAAGTGTGGAGTATGGGGCTGACA
TCCATTCAAAGAATTTGGCAGCGGTTCCCTGTCAAGTACAGTAAAGCGCACCTAACCCAGAGGAGGA
GGAGTATGCTACAAGTGGTTGGAACCTGAATGTGATGCCTGTATTGGAGCAGTCTGACTGTGCCACATC



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AATGCAGATATATCTGGCATGAAGGTACCGTGGCTGTATGTGGGAATGGTCTTCTCAGCCTTTTGTGGC
 ATATTGAAGATCACTGGAGTTACTCTATTAACCTCCACTGGGGTGGAGCCAAAACCTGGTATGGAGT
 CCCATCGCTTGCAGCGGAACACTTGAAGAAGTGAAGAAGCTGACACCTGAGCTTTTGTATAGCCAG
 CCTGATCTCCTTACCAACTCGTCACCCATGAATCCTAACACGCTCATGTCCCATGGTGTGCCGGTTG
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 AGGCTACAACCTTGTGAGGCAGTCAACTTTTGCAGTGTGCTGCCTGCTGGGCCCAATGCATT
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 GCCCTGAGAACTGGACCTGAACCTGGCAGCAGCTGTACATAAGGAGATGTTTATTGGTGAAGAGGA
 GCGGGCTCTACGAAAGGCTCTGTTGAAAAAGGTATCACCGAGGCTGAGCGAGAGGCTTTTGTGCTGCT
 CCAGATGATGAACGTCAAGTGCATAAAGTGAAGACCACATGTTTCTATCTGCCCTGGCTTGTATGACT
 GCCCAGATGGCCTTGTCTGCCTTCTCACATCAATGACCTCTGCAAGTGTCCAGTAGCCGCCAGTACCT
 TCGGTATCGGTACACCTTGGATGAGCTCCCTGCCATGCTGCATAAACTGAAAGTTAGAGCTGAGTCTTT
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 TGAGAGCACTAGAATCTGAGGCTCGTGAGCGAAGGTTTCTAACAGTGAAGTCTACAGCGACTGAAAA
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 CTGGGTGTGGAGTACCTGAAGCCAGCAGCTCCAAGGCAGGTGGAACAGGCGCGGTGGCTGGATGAGG
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 CGCCAGTGTAGCCCTAGCCCTGCTGTGGATAAGGCCAGGCAGAGCTTCCAGGAGCTGCTGACCATCGT
 GAACGCTGGGAAGAGAAAGCCACCTCTGCTTAGAGGCCAGGCAGAAGCATCCACCAGCCACACTGAGG
 CCATAATCCATGAAGCAGAAAACATCCCTGTTCACTTGCCCAATATCCAGTCTCTCAAGGAGGCTTTGC
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 TTGGAGGGCTCTGAGTGTGGTCTGGGACCTCCCTGTGGGGCTGGAGGAAGTGAAGAGCTAGAGCTAC
 AGGTATTGACAGCACACTCCTGGAGAGAAAAGGCTCCAAGACCTTCTCAAGAAGAACTCCTGCTATAC
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 AAGGAGCTGGGGTGTACAAATCTGACACAGAGCTGTTGGGGCTGCTGCGCAGGACCTCAGGGACCCAG
 GCTCTGTGATCGTGGCCTTCAAAGAGGGGGAGCAGAAGGAGAAGGAAGGGATACTGCAGCTTCGTGTAC
 CAACTCAGCCAAGCCAAGTCCACTGGCAGTGTGACAACAGCCTCCTCTACAGCTTCTATCTGCGTGTGT
 GGGCAAGTGCCAGCTGGGGTGGGAGCTCTGCAGTGTGACCTGTGTGAGGACTGGTTCCATGGGCGCTGTG
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 ATGGGACACCAAATTCTGTGCCCTCTGTGTATGCGCTCACGGCGCCACGCTTGGAAACCATCCTGGCA
 CTGCTGGTAGCCCTACAGAGACTGCCTGTGCGGCTGCCTGAGGGTGAAGGCTTACAGTGCCTCACAGAGA
 GAGCCATCAGCTGGCAAGGCCGTGCCAGACAGGTTTTGGCCTCTGAGGAAGTGAAGTCTGCTGTTGGGACG
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 GGTGGAGAGGGCACTGGCAATATGCCGAAGGTCCAGGGCTGTTGGAGAATGGGGACAGTGTGACCAGTC
 CTGAAAAGGTAGCCACAGAGGAGGGCTCAGATCTGGAGCTGCTATCCTCAATATTACCACAGTGTCTGG
 CCCTGTGTTGAACTGCCTGAGGCAACCCGAGCCCACTGGAGGAAGTATGATGGAAGGGGATCTGCTT
 GAGGTGACCCTAGATGAGAATCATAGCATCTGGCAGCTGCTGCAGGCTGGGCAGCCTCCAGACTGAAGA
 GGGTCCAGACACTTCTGAGCTGGAGAAGGCAGAGCGCCATGGGAGTCCGACACGAGGCCGAGCCCTAGA
 GAGGAGACGACGGAGGAAGGTGGATCGGGGTGGGAGCCGGATGACCCGGCACGAGAGGAGCTAGAGCCA
 AAGAGGGTACGAAGCTCAGGACCAGAAGCCGAGGAAGTCCAGGAGGAAGAGGAGCTGGAGGAGGAGACTG
 GGGGTGAGGTCCCTCTGTACCTTCCCAACAGTGGCAGCCCCAGCATCCAGGAGGACCAGGATGGCTT
 AGAACCAGTGTAGAGGCTGGTTCTGACACCTCAGCCCCCTTCTACTCTGACTTCCCGGCTGTTGATG
 TCCTGCCACAGCAGCCATCTGCAACAATTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3374_b01.zip

Restriction Sites: Sgfl-Mlul

ACCN:	NM_013668
Insert Size:	4656 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:	<u>NM_013668.4</u> , <u>NP_038696.2</u>
RefSeq Size:	11030 bp
RefSeq ORF:	4656 bp
Locus ID:	20591
UniProt ID:	<u>P41230</u>
Cytogenetics:	X 68.46 cM
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'. Participates in transcriptional repression of neuronal genes by recruiting histone deacetylases and REST at neuron-restrictive silencer elements (By similarity). Represses the CLOCK-ARNTL/BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2.[UniProtKB/Swiss-Prot Function]