

Product datasheet for **RR205227**

Kdm1a (NM_001130098) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm1a (NM_001130098) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kdm1a
Synonyms:	Aof2; Kdm1; RGD1562975
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205227 representing NM_001130098
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTGTCTGGGAAGAAGCGCGCGCGCGGCAGCGCGCGCGCGGCAGCAGCGGCTGGGACAGAGGCCG
 GGCCCGGGCGCGCGCGCGCGCGGAGAACGGCTCTGAGGTGGCCGCGCCCGCGGGCCTGGCGGGCC
 CGCCGACATTGCTACGGGGCGCGGGCGAGCGCACTCCCCGAAAGAAGGAGCCTCCGCGGGCCTCGCCG
 CCCGGAGGCTGGCCGAGCCGCTGGGTCGCGGGCCTCAGGCGGGGCCACAGCCGGGCCCGGCTCCG
 CTACACCCATGGAGACAGGAATAGCCGAGACCCCGGAGGGCCGACGGACCAGCCGACGAAAGCGGGCGAA
 GGTAGAATACAGAGAAATGGATGAAAGCTTGCCCAACCTCTCAGAAGATGAATATTATTCAGAAGAAGAA
 AGAAATGCCAAAGCAGAGAAGGAGAAGAAGCTTCCCCGCCACCTCTCAAGCCCCACCTGAGGAGGAAA
 ATGAAAGTGAGCCCGAGGAGCCGTCTGGCAAGCAGGAGGACTTCAAGACGACAGTTCTGGAGGGTATGG
 AGACGGCCAAGCATCAGGTGTGGAGGGTGCAGCTTCCAAGCAGACTTCCCATGACCGAATGACCTCT
 CAGGAAGCAGCGTGTTCAGACATCATCAGTGGCCTCAGCAGACACAGAAGTTTTCTGTTTATCA
 GGAATCGCACATTGCAGTTATGTTGGACAACCCAAAGATTTCAGCTGACATTTGAAGCTACGCTCCAGCA
 GTTAGAAGCACCTTATAACAGTGACACTGTACTTGTCCACCGAGTTCATAGTTACTTAGAGCGCCACGGT
 CTTATCAACTTCGGCATCTACAAGAGGATAAAACCTTTACCAATTAAGAGACAGGAAAGGTGATTATTA
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 GGAAGCCAGGGATCGCGTAGGTGGACGGTTCGCTACATTCGAAAAGGAACTATGTAGCTGATCTTGGG
 GCCATGGTAGTAACAGGTCTTGGAGGAAATCCCATGGCTGTCGTCAGCAAAAGTAAATATGAACTGG
 CCAAGTCAAGCAAAAAATGCCACTTTATGAAGCCAATGGACAAGCTGTTCCAAAAGGAAAGATGAAAT
 GGTAGAACAAGAATTTAACCGTTGCTTGAAGCCAACCTTACCTTAGTCATCAGTTAGACTTCAACGTC
 CTCAATAATAAACCTGTGTCCCTTGCCAGGCGTTGGAGTTGTCATTACGCTACAAGAAAAGCAGCTCA
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 CCCAGAGATATTACAGCTGAGTTCTAGTAAAAGCAAGCACAGGGACCTGACTGCCCTCTGCAAGGAAT
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 TGATGTATATCTCTCATCAAGAGACAGACAAATACTTACTGGCATTGTTGCAATCTTGAATTTGCCAAC
 GCCACACCTCTCTACCTCTCTTAAACATTGGGATCAGGATGATGACTTCGAGTTTACTGGCAGCC
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 CACAGCAGTGCGGAGGTTTCGCTACACAGCCTCAGGATGTGAAGTGATTGCTGTGAACACACGCTCCACA
 AGTCAGACCTTCAATTTAAGTGTGACGCAAGTGTCTGTACCTTCTTTGGGAGTGCTGAAGCAGCAGC
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 GAAGCAGGAAGGATTGCCGACAGTTTTTGGGAGCCATGTACACGTTGCCTGTGAGCCACACCGGGTG
 TCCCTGCACAGCAGTCCCCAAGTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205227 representing NM_001130098
 Red=Cloning site Green=Tags(s)

MLSGKAAAAAAAAAAAAAGTEAGPGAAGGAENGSEVAAPPAGLAGPADIATGAAGERTPRKKEPPRASP
 PGLAEPPGSAGPQAGPTAGPGSATPMETGIAETPEGRRTSRRKRAKVEYREMDLANLSEDEYSEEE
 RNAKAEKEKKLPPPPQAPPEEENESEPEEPSGQAGGLQDSSGGYGDGQASGVEGAAFQSRLPHDRMTS
 QEAACFPDIIISGPQQTQKVFLFIRNRTLQLWLDNPKIQLTFEATLQQLEAPYNSDTVLVHRVHSYLERHG
 LINFGIYKRIKPLPIKKTGKVIIIGSGVSGLAAARQLQSFQMDVTLLEARDRVGGRVATFRKGNVYADLG
 AMVVTGLGPNMAVVSQVNMELAKIKQKCLYEANGQAVPKEKDEMVEQEFNRLLEATSYLSHQDFNV
 LNNKPVSLGQALEVVIQLQEKHVKDEQIEHWKIVKTQEELKELLNKMVNLKEKIKELHQQYKEASEVKP
 PRDITAEFLVSKHRDLTALCKEYDELAETQGKLEEKLELEANPPSDVYLSSRDRQILDWHFANLEFAN
 ATPLSTLSLKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEGLDIKLNTAVRQVRYTASGCEVIAVNRST
 SQTFIYKCDAVLCTPLGVLKQPPAVQFVPLPEWKTSAVQRMFGNLNKVVLCFDRVFWDPVSNLFGH
 VGSTTASRGELFLFWNLKAPILLALVAGEAAGIMENISDDVIVGRCLAILKIGIFSSAVPQPKETVVS
 WRADPWARGSYSVAAGSSGNDYDLMAQPIITPGPSIPGAPQIPRLFFAGEHTIRNYPATVHGALLSGLR
 EAGRIADQFLGAMYTLPRQATPGVPAQQSPSM

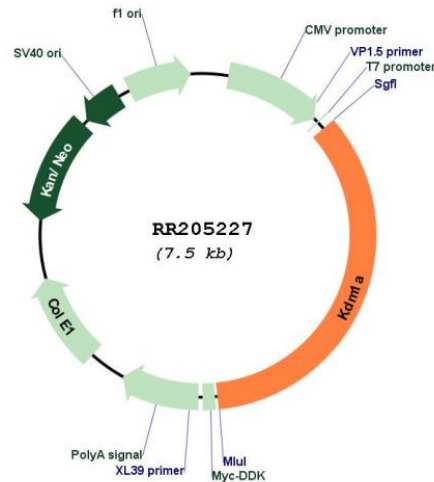
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001130098

ORF Size: 2616 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001130098.1](#), [NP_001123570.1](#)

RefSeq Size: 3066 bp

RefSeq ORF: 2619 bp

Locus ID: 500569

Cytogenetics: 5q36

MW: 94.5 kDa