

Product datasheet for **RC230555**

KDM1A (NM_001009999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM1A (NM_001009999) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KDM1A
Synonyms:	AOF2; BHC110; CPRF; KDM1; LSD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230555 representing NM_001009999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTATCTGGGAAGAAGCGGCAGCCGCGCGCGCGGCTGCAGCGGCAGCAACCGGGACGGAGGCTG
 GCCCTGGGACAGCAGCGCGCTCCGAGAACGGGCTGAGGTGGCCGCGCAGCCCGCGGCCTGTCGGGCC
 AGCCGAGGTGGGCGCGGGGCGGTGGGGAGCGCACACCCCGCAAGAAAGAGCCTCCGCGGGCTCGCCC
 CCCGGGGCTGGCGGAACCGCGGGTCCGAGGGCCTCAGGCCGGCCACTGTCTGCTGGTCTG
 CGACCCCATGGAAGTGAATAGCAGAGACTCCGGAGGGCGTCCGACCAGCCGCGCAAGCGGGCGAA
 GGTAGAGTACAGAGAGATGGATGAAAGCTTGCCAACCTCTCAGAAGTGAATATTTCAGAAGAAGAG
 AGAAATGCCAAAGCAGAGAAGGAAAAGAAGCTTCCCCACCACCCCTCAAGCCCACCTGAGGAAGAAA
 ATGAAAGTGAACCTGAAGAACCATCGGGCAAGCAGGAGGACTTCAAGACGACAGTTCTGGAGGGTATGG
 AGACGGCAAGCATCAGGTGTGGAGGGCGCAGCTTCCAGAGCCGACTTCTCATGACCGGATGACTTCT
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 GAAACCGCACACTGCAGTTGTGGTTGGATAATCCAAAGATTTCAGCTGACATTTGAGGCTACTCTCCAACA
 ATTAGAAGCACCTTATAACAGTGAATGTGCTTGTCCACCGAGTTCACAGTTATTTAGAGCGTCATGGT
 CTTATCAACTTCGGCATCTATAAGAGGATAAAAACCCCTACCACTAAAAAGACAGGAAAGTAATTATTA
 TAGGCTCTGGGTCTCAGGCTTGGCAGCAGCTCGACAGTTACAAAGTTTTGGAATGGATGTCACACTTTT
 GGAAGCCAGGGATCGTGTGGTGGACGAGTTGCCACATTCGCAAAGGAACTATGTAGCTGATCTTGA
 GCCATGGTGGTAACAGGTCTTGGAGGGAATCCTATGGCTGTGGTCAAGCAAGTAAATATGAACTGG
 CCAAGTCAAGCAAAAATGCCACTTTATGAAGCCAACGACAAGCTGACACTGTCAAGTTTCTAAAGA
 GAAAGATGAAATGGTAGAGCAAGAGTTTAAACCGTTGCTAGAAGCTACATCTTACCTTAGTCATCAACTA
 GACTTCAATGTCTCAATAATAAGCCTGTGTCCCTTGGCCAGGCATTGGAAGTTGCATTAGTTACAAG
 AGAAGCATGTCAAAGTGAAGCAGATTGAACATTGGAAGAAGATAGTGAAGTCAAGGAAGATTGAAAGA
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 GAAGTAAAGCCACCCAGAGATTAAGTCCGAGTTCTTAGTGAAGCAAAACACAGGGATCTGACCGCCC
 TATGCAAGGAATATGATGAATTAGCTGAAACACAAGGAAAGCTAGAAGAAAACCTCAGGAGTTGGAAGC
 GAATCCCCAAGTATATATCTCTCATCAAGAGACAGACAAAATACTTGATTGGCATTGCAAACTCTT
 GAATTTGCTAATGCCACACTCTCAACTCTCCCTTAAGCACTGGGATCAGGATGATGACTTTGAGT
 TCACTGGCAGCCACCTGACAGTAAGGAATGGCTACTCGTGTGTGCTGTGGCTTTAGCAGAAGGCCTAGA
 CATTAACTGAATACAGCAGTGCAGAGTTTCGCTACACGGCTTCAAGGATGTGAAGTGAAGTGTGAAT
 ACCCGCTCCACGAGTCAAACCTTTATTTATAAATGCGACGCGAGTTCTCTGTACCCCTCCCTGGGTGTGC
 TGAAGCAGCAGCCACAGCCGTTTCAAGTTGTGCCACCTCTCCCTGAGTGGAAAACATCTGCAGTCCAAAG
 GATGGGATTTGGCAACCTTAACAAGGTGGTGTGTGTTTTGATCGGGTGTCTGGGATCCAAGTGTCAAT
 TTGTTCCGGCATGTTGGCAGTACGACTGCCAGCAGGGGTGAGCTTCTCTTCTGGAACCTCTATAAAG
 CTCCAATACTGTTGGCACTAGTGGCAGGAGAAGCTGCTGGTATCATGGAAAACATAAGTGACGATGTGAT
 TGTGGCCGATGCCTGGCCATTCTCAAAGGGATTTTGGTAGCAGTGCAGTACCTCAGCCAAAGAAACT
 GTGGTGTCTCGTTGGCGTGTGATCCCTGGGCTCGGGGCTTATTCTATGTTGCTGCAGGATCATCTG
 GAAATGACTATGATTTAATGGCTCAGCCAACTCCTGGCCCTCGATTCCAGGTGCCCCACAGCCGAT
 TCCACGACTCTTCTTGGGGGAGAACATACGATCCGTAACCTACCCAGCCACAGTGCATGGTGTCTGCTG
 AGTGGGCTGCGAGAAGCGGGAAGAAATTCAGACAGGATTTTTGGGGCCATGTATACGCTGCCTCGCCAGG
 CCACACCAGGTGTTCTGCACAGCAGTCCCAAGCATG

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230555 representing NM_001009999
 Red=Cloning site Green=Tags(s)

MLSGKAAAAAAAAAATGTEAGPGTAGGSENGSEVAAQPAGLSGPAEVGPGAVGERTPRKKEPPRASP
 PGGLAEPGSGAPQAGPTVVPGSATPMETGIAETPEGRRTSRRKRAKVEYREMDLANLSEDEYSEEE
 RNAKAEKEKKLPPPPQAPPEEENESEPEEPSGQAGGLQDSSGGYGDGQASGVEGAAFQSRLPHDRMTS
 QEAACFPDIIISGPQQTQKVFLFIRNRTLQLWLDNPKIQLTFEATLQQLEAPYNSDTVLVHRVHSYLERHG
 LINFGIYKRIKPLPTKKTGKVIIIGSGVSGLAAARQLQSFQMDVTLLLEARDRVGGRVATFRKGNVYADLG
 AMVVTGLGGNPMVAVSKQVNMELAKIKQKCLYEANGQADTVKVPKEKDEMVEQEFNRLLEATSYSHLQ
 DFNVLNKNPVSLGQALEVVIQLQEKHVKDEQIEHWKIVKTQEELKELLNKMNKKEIKELHQYKEAS
 EVKPPRDIATAEFLVKSKHRDLTALCKEYDELAETQGKLEEKLELEANPPSDVYLSSDRQILDWHFANL
 EFANATPLSTLSLKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEGLDIKLNTAVRQVRYTASGCEVI
 AVNTRSTSQTFIYKCAVLCPLPLGVLKQPPAVQFVPPLPEWKTSAVQRMGFGNLNKKVLCFDRVFWDP
 SVNLFGHVGSTTASRGELFLFWNLKAPILLALVAGEAAGIMENISDDVIVGRCLAILKGI
 FGSSAVPQPKETVYSRWADPWARGSYSVAAGSSGNDYDLMAQPIIPGPSIPGAPQIPRLFFAGEHTIR
 NYPATVHGALLSGLREAGRIADQFLGAMYTLPRQATPGVPAQQSPSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2636_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

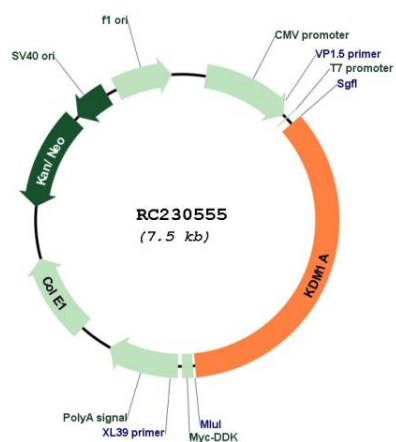
Cloning sites used for ORF Shuttling:



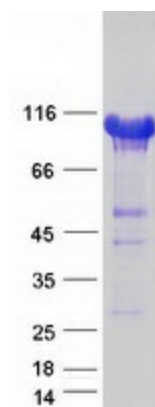
* The last codon before the Stop codon of the ORF

ACCN:	NM_001009999
ORF Size:	2628 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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_001009999.3
RefSeq Size:	3125 bp
RefSeq ORF:	2631 bp
Locus ID:	23028
UniProt ID:	O60341
Cytogenetics:	1p36.12
Protein Families:	Druggable Genome, Transcription Factors
MW:	95.6 kDa
Gene Summary:	This gene encodes a nuclear protein containing a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, though it silences genes by functioning as a histone demethylase. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]

Product images:



Circular map for RC230555



Coomassie blue staining of purified KDM1A protein (Cat# [TP330555]). The protein was produced from HEK293T cells transfected with KDM1A cDNA clone (Cat# RC230555) using MegaTran 2.0 (Cat# [TT210002]).