

Product datasheet for **MR210889**

Kdm2a (NM_001001984) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm2a (NM_001001984) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kdm2a
Synonyms:	5530401A10Rik; 100043628; AA589516; AW536790; Cxxc8; Fbl7; Fbl11; Fbxl11; Gm4560; Jhdm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210889 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

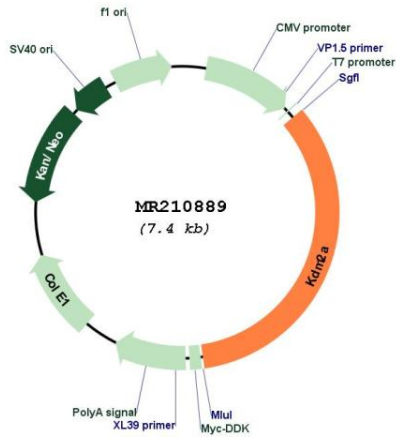
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GCC**CGCATCGCC**

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ATGATGGCATTTCAGATGATGAAATTGAAGGGAAAAGAAGCTTTTACTTGGAAAGAGAAGCTCCAAACCAA
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GGCTTGAGAGACCCTCTCATTTCAGAATTCTGATGGACTTGAATAAAGATGCCGGATCCAGACTTCA
CAGTGAATGATGTCAAAATGTGTGTGGGAGTCGTCGGATGGTGGATGTCATGGATGTAACACACAGAA
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AGCTCATCCACGACCCGGTTTCTCCCGGGGTATGGTACTCGGTATCCCTGGGGCTGGCCCCAGCGA
CCACCACAGTCCAGCCGTGATGAACGCTTCAAACGGCGCAGTTGCTGCGGCTACAAGCCACCGAGCGC
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TCCGGGGATCGTACCTCACTGTCACTCTACAGAGGCCACCAAAGAGCTCCACGGGACATCCATTGTGCC
CAAGCTGCAGGCCATCACGGCCTCTGCCAACCTTCGCCCTAACCCCGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

ACCN:	NM_001001984
ORF Size:	2508 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:	<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_001001984.1
RefSeq Size:	7268 bp
RefSeq ORF:	3486 bp
Locus ID:	225876
UniProt ID:	P59997
Cytogenetics:	19 A
MW:	95.6 kDa
Gene Summary:	Histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. May also recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation. Required to maintain the heterochromatic state. Associates with centromeres and represses transcription of small non-coding RNAs that are encoded by the clusters of satellite repeats at the centromere. Required to sustain centromeric integrity and genomic stability, particularly during mitosis (By similarity). Regulates circadian gene expression by repressing the transcriptional activator activity of CLOCK-ARNTL/BMAL1 heterodimer and RORA in a catalytically-independent manner (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210889