OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR210589

Kdm2b (NM_013910) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm2b (NM_013910) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kdm2b
Synonyms:	Cxxc2; Fbl10; Fbxl1; Fbxl10; Jhdm1b; PCCX2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR210589 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCATGTCCGTGAGCGCCGAGGACGACGACTATGAATCGGAGCCCGACCAGAACCGGGTGGTGGGTC
GGCCTAAGGGCAAGTTGGGCCCGGCCTCAGCGGTGAAGTTGGCTGCCAACCGAACAACAGCAGGAGCTCG
CAGGCGCCGGACGCGATGCCGCAAGTGCGAGGCCTGCCTGCGGACGGAGTGTGGAGAGTGCCACTTTTGC
AAGGACATGAAGAAGTTTGGAGGTCCTGGGCGCATGAAGCAGAGCTGCATCATGCGGCAGTGCATCGCGC
CAGTGCTGCCCCACACCGCCGTGTGCCTTGTGTGTGGCGAGGCAGGGAAGGAGGACACAGTGGAAGAGGA
AGAAGGCAAGTTTAACCTCATGCTCATGGAATGCTCCATCTGCAACGAGATCATCCACCCTGGATGCCTT
AAGATTAAGGAATCGGAGGGTGTGGTCAACGATGAGCTTCCCAACTGCTGGGAGTGTCCGAAGTGTAACC
ATGCCGGCAAGACCGGGAAACAAAAGCGTGGCCCTGGCTTTAAGTATGCCTCCAACCTGCCTGGCTCCTT
GCTCAAGGAGCAGAAGATGAACCGGGACAACAAGGAAGGGCAAGAGCCTGCCAAGCGGAGAAGTGAGTGT
GAAGAGGCTCCCCGTCGGAGGTCAGACGAGCACCCCAAAAAGGTGCCTGCAGATGGCATCCTCCGCCGAA
AGTCTGATGATGTGCACCTGAGGAGGAAGCGGAAATACGAGAAGCCCCAAGAGCTGAGTGGACGCAAGCG
AGCCTCGTCGCTTCAAACGTCCCCCGGTTCCTCCTCTCACCTCTCGCCGAGGCCCCCTCTAGGCAGCAGT
CTCAGCCCTTGGTGGAGATCCAGTCTCACTTACTTCCAGCAGCAGCTAAAACCTGGCAAAGAAGATAAGC
TTTTCAGGAAAAAGCGGCGGTCCTGGAAGAACGCTGAGGATCGTCTGTCACTGGCCAACAAGCCCCTTCG
GCGCTTTAAGCAGGAACCGGAGGACGATCTGCCTGAGGCACCTCCTAAGACCCGGGAGAGTGATCAGTCA
CGTTCCAGCTCACCCACTGCTGGTCCCAGCACTGAGGGAGCTGAAGGCCCAGAAGAGAAGAAAAAGGTGA
AGATGCGCCGGAAGCGGCGACTTGTTAACAAGGAGCTGAGCAAAGAGCTAAGCAAGGAGCTCAACCATGA
GATCCAAAAGACGGAGAGCACCCTGGCTCACGAGAGCCAGCAGCCCATCAAGTCAGAGCCTGAGAGCGAG
AACGACGAGCCCAAGAGGCCCTTAAGCCACTGCGAGCGCCCCCACCGCTTCAGCAAAGGGCTCAACGGCA
CACCTCGGGAGCTGCGGCACTCGCTGGGACCTGGCCTGCGTAGTCCACCTCGTGTTATGTCCCGGCCCCC
GCCCTCTGCATCCCCACCCAAGTGCATCCAGATGGAGCGTCACGTGATCCGGCCACCGCCCATCAGCCCC
CCACCTGACTCGCTGCCCCTGGATGATGGAGCAGCCCACGTCATGCATAGGGAGGTGTGGATGGCAGTCT
TCAGCTACCTCAGCCACCGAGACCTGTGTGTCTGCATGCGGGTCTGCAGGACCTGGAACCGCTGGTGCTG
CGATAAGCGGTTGTGGACCCGCATCGACCTGAACCGCTGCAAGTCCATCACACCCCTGATGCTGAGCGGT
ATCATCCGGCGACAGCCTGTCTCCCTTGACCTCAGTTGGACCAACATCTCCAAGAAGCAGCTGAGTTGGC
TCATCAACCGGTTGCCTGGGCTCCGAGACTTGGTGCTGTCAGGCTGCTCATGGATCGCTGTCTCAGCCCT
CTGTAGCTCCAGTTGTCCATTGCTCCGGACCCTGGATGTCCAGTGGGTAGAAGGACTAAAGGATGCCCAG
ATGAGGGATCTCCTGTCTCCACCCACAGACAACAGGCCAGGTCAGATGGACAATCGGAGCAAGCTCCGGA
ACATTGTAGAGCTGCGCCTAGCTGGCCTGGACATCACAGATGTCTCCCTGCGGCTCATTATTCGCCATAT
GCCCCTGCTCTCGAAGCTCCAACTCAGTTACTGTAACCACATCAATGACCAGTCCATCAACCTGCTCACT
GCCGTCGGCACCACCACCCGAGACTCGCTGACAGAGGTCAACCTATCAGACTGTAATAAGGTAACTGACC
TGTGCCTGTCCTTCTTCAAACGCTGTGGAAATATCTGTCATATTGACCTGAGGTACTGCAAGCAAGTCAC
CAAGGAAGGCTGTGAGCAATTCATAGCTGAAATGTCTGTGAGTGTCCAATTTGGGCAAGTGGAAGAGAAA
CTCCTGCAAAAACTAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

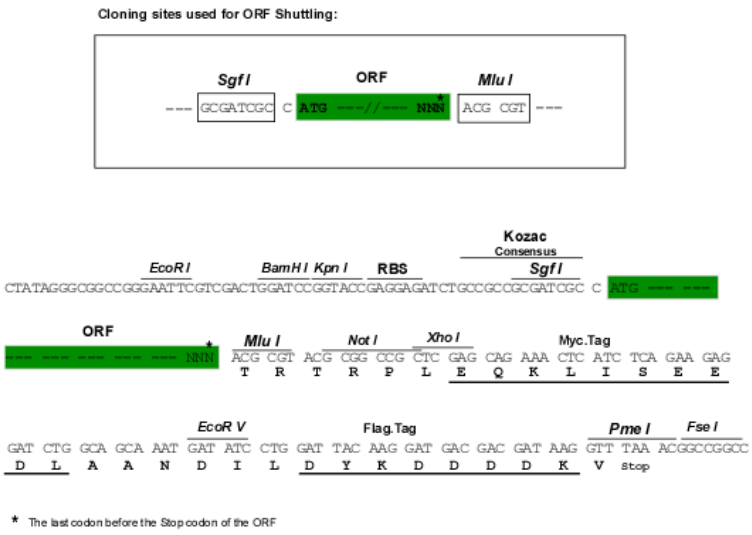
>MR210589 protein sequence
Red=Cloning site Green=Tags(s)

MAMSVSAEDDDYESEPDQNRVVGRPKGKLGPASAVKLAANRTTAGARRRRTRCRKCEACLRTECGECHFC
KDMKKFGGPGRMKQSCIMRQCIAPVLPHTAVCLVCGEAGKEDTVEEEEGKFNLMLMECSICNEIIHPGCL
KIKESEGVVNDELPNCWECPKCNHAGKTGKQKRGPGFKYASNLPGSLLKEQKMNRDNKEGQEPAKRRSEC
EEAPRRRSDEHPKKVPADGILRRKSDDVHLRRKRKYEKPQELSGRKRASSLQTSPGSSSHLSPRPPLGSS
LSPWWRSSLTYFQQQLKPGKEDKLFRKKRRSWKNAEDRLSLANKPLRRFKQEPEDDLPEAPPKTRESDQS
RSSSPTAGPSTEGAEGPEEKKKVKMRRKRRLVNKELSKELSKELNHEIQKTESTLAHESQQPIKSEPESE
NDEPKRPLSHCERPHRFSKGLNGTPRELRHSLGPGLRSPPRVMSRPPPSASPPKCIQMERHVIRPPPISP
PPDSLPLDDGAAHVMHREVWMAVFSYLSHRDLCVCMRVCRTWNRWCCDKRLWTRIDLNRCKSITPLMLSG
IIRRQPVSLDLSWTNISKKQLSWLINRLPGLRDLVLSGCSWIAVSALCSSSCPLLRTLDVQWVEGLKDAQ
MRDLLSPPTDNRPGQMDNRSKLRNIVELRLAGLDITDVSLRLIIRHMPLLSKLQLSYCNHINDQSINLLT
AVGTTTRDSLTEVNLSDCNKVTDLCLSFFKRCGNICHIDLRYCKQVTKEGCEQFIAEMSVSVQFGQVEEK
LLQKLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_013910
ORF Size:	2331 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_013910.2, NP_038938.1

RefSeq Size: 3541 bp

RefSeq ORF: 2331 bp

Locus ID: 30841

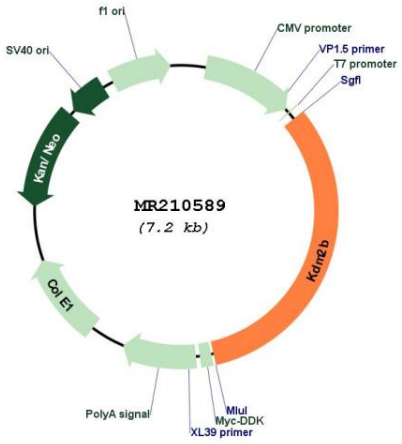
UniProt ID: Q6P1G2

Cytogenetics: 5 F

MW: 88 kDa

Gene Summary: The protein encoded by this gene is a H3K36-specific histone demethylase, which contains an N-terminal jumonji C domain, a CxxC zinc finger domain, a plant homeodomain finger, an F-box, and eight leucine-rich repeats. Amongst its demonstrated functions, this protein plays roles in the suppression of premature cellular senescence, leukemia maintenance and development, maintenance of mouse embryonic stem cell pluripotency, and induced pluripotent stem cell generation. Mice homozygous for a targeted deletion of the zinc finger domain display embryonic lethality with development ceasing at approximately 7 to 8 days post coitum, demonstrating an essential role in early development. A pseudogene of this gene is found on chromosome 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for MR210589