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Product datasheet for MC224778

Kdm6b (NM_001017426) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm6b (NM_001017426) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kdm6b
Synonyms:	1700064E03Rik; BC038313; Jmjd3; mKIAA0346
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224778 representing NM_001017426 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCATCGGGCAGTGGACCCTCCAGGGGCCCGCTCTGCACGGGAAGCCTTTGCCCTTGGGGGCTTGAGCT GTGCTGGGGCTTGGAGCTCCTGCCCACCCCATCCTCCTCCCCGAAGCTCATGGCTGCCCGGAGGCAGATG CTCTGCCAGCGTTGGGCAGCCCCCACTCTCAGCTCCTTTACCCCCATCTCATGGCAGTAGCTCCGGGCAC CCTAACAAACCCTATTATGCTCCTGGGACACCCACCCCAAGACCCCTTCACGGGAAGTTGGAATCCCTAC ATGGCTGTGTCCAGGCATTGCTCCGGGAGCCAGCGCAGCCAGGGTTGTGGGAACAGCTTGGACAGTTGTA TGAATCAGAGCACGACAGTGAGGAAGCCGTATGCTGCTACCATAGGGCCCTTCGCTATGGAGGAAGCTTC GCCGAGCTGGGACCCCGGATTGGCCGCTTGCAGCAGGCCCAGCTCTGGAACTTTCATGCCGGTTCCTGTC AGCACAGAGCCAAGGTCCTGCCTCCCCTGGAGCAAGTCTGGAATTTGCTGCACCTTGAGCACAAACGGAA CTATGGGGCTAAGCGAGGGGGCCCTCCAGTGAAGAGATCTGCTGAACCCCCCGTGGTCCAGCCTATGCCT CCTGCAGCCCTCTCAGGCCCCTCAGGAGAGGAGGGCCTTAGCCCTGGAGGCAAGCGCAGGAGAGGCTGCA GCTCTGAACAGGCTGGCCTTCCCCCAGGTCTGCCACTCCCTCCACCACCCCCACCCCCACCGCCTCCACC ACCACCACCACCCCCTCCACCACCACCGCTGCCTGGCCTGGCTATTAGCCCCCCATTTCAGCTGACTAAG CCAGGGCTGTGGAATACCCTGCATGGAGATGCTTGGGGCCCCGAGCGCAAGGGTTCAGCGCCGCCAGAGC GCCAGGAGCAGCGGCACTCGATGCCTCATTCATATCCATACCCAGCTCCCGCCTACTCCGCTCATCCGCC CAGCCATCGGCTGGTCCCCAACACACCCCTTGGTCCAGGTCCCCGACCCCCAGGAGCAGAGAGCCATGGC TGCCTGCCTGCCACCCGTCCCCCCGGAAGTGACCTTAGAGAGAGCAGAGTTCAGAGGTCGCGGATGGACT CCAGCGTTTCACCAGCAGCATCTACCGCCTGCGTGCCTTACGCCCCTTCCCGGCCCCCTGGCCTCCCCGG CACCAGCAGCAGCAGCAGCAGCAGCAGTAGCAGTAACAACACTGGTCTTCGGGGTGTGGAGCCAAGCCCA GGCATTCCTGGCGCTGACCATTACCAAAACCCTGCGCTGGAGATATCCCCTCACCAGGCCCGCCTGGGTC CCTCCGCACACAGCAGTCGGAAACCATTTTTGACGGCCCCTGCTGCCACGCCCCACTTATCCCTACCCCC TGGGACCCCATCATCCCCTCCACCCCCATGTCCTCGCCTCTTGCGCCCTCCACCGCCCCCTGCTTGGATG AAGGGCTCAGCCTGCCGTGCAGCCCGAGAGGATGGAGAGATCTTAGGGGAGCTCTTCTTTGGTGCTGAGG

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TGGCTCCCGCCAGCACGTCTCGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001017426
Insert Size:	4926 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:	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_001017426.1, NP_001017426.1
RefSeq Size:	6654 bp
RefSeq ORF:	4926 bp
Locus ID:	216850
UniProt ID:	Q5NCY0
Cytogenetics:	11 B3
Gene Summary:	Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation (PubMed:17825402). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression by acting as a link between T-box factors and the SMARCA4-containing SWI/SNF remodeling complex (PubMed:21095589). [UniProtKB/Swiss-Prot Function]