

## Product datasheet for **MR212028**

### Kdm5b (NM\_152895) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm5b (NM_152895) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kdm5b
Synonyms:	2010009J12Rik; 2210016I17Rik; AW556288; D1Ertd202; D1Ertd202e; Jari; Jarid1b; mKIAA4034; Pl; PLU; PLU-1; Plu1; PUT1; Rb-B; Rb-Bp2; RBBP2H1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR212028 representing NM_152895 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCGGCCACCACGCTGCCCCAGGCCCGCGCCGCGCTGCCCTCGGGGGCCGGGCCCGCTGG  
GAGAGTTCCTGCCTCCCCGAGTGCCGGTCTTCGAGCCGAGCTGGGAAGAGTTCGCGGACCCCTTCG  
TTTCATCCACAAGATCCGGCCATAGCCGAGCAGACTGGGATCTGTAAGGTGCGGCCCGCCGGATTGG  
CAGCCACCATTGCTTGTGATGTCGATAAACTTCATTTACCCCGCGGATCCAGAGGCTGAATGAGCTGG  
AGGCCAAACACGTGTAATTTGAATTTCTGGACCAGATTGCAAAGTATTGGGAGCTACAAGGAAGTAC  
TCTGAAGATCCACACGTGGAGAGAAAGATCTTAGACTTGTCCAGCTAAATAAGTTAGTCGAGAAGAA  
GGTGGGTTTGCAGTTGTTTGAAGGATAGAAAATGGACAAAATGCCACCAAGATGGGTTTTGCTCCTG  
GTAAGGCTGTGGGCTCACATATCAGGGGACATTATGAGCGAATACTCAATCCATACAATTTGTTCTGTC  
TGGAGACAGTCTGAGGTGTCTTCAAGGCTAACCTGACCTCCGACACAAAGGACAAGGAGTACAACCC  
CATGATATTTCCAGAGGCGAGTCTGTGCAGCCCGAGAAACCTGTCTCCGGCCCGGAGCAAAGCGCA  
TGAGAGCAGAGGCTATGAATATTAATAATGAGCCAGAAGAGGCAACAGAAGCCAGGACTCATAATCTGAG  
ACGCCGAATGGTTGCACAACCTCAAAAATGGGAAAATGAGAAAGAAAATGAAAAGCACCATCAAGCAAGAG  
CCACTGAGAAGAAAGACTGCGAGTTAGAAAGTGAAGAGGAGAAGCCCAAGAGCCGGGCCAAGAAAACGG  
CCACTGCGGTGGACCTGTATGTGTGCCTTTATGTGGAAGTGGCAATGACGAGGACCAGCTCCTACTGTG  
TGACGGTGTGATGACAGTTACCACACCTTCTGCCTGGTTCCCTCTCCATGACGTTCCCAAGGGAGAG  
TGGAGGTGCTCAAGTGTGGCTCAAGAATGTAATAAGCCACAAGAAGCTTTTGGTTTTGAACAAGCAG  
CAAGGGACTATACACTTCGTACATTTGGAGAAATGGCAGATGCATTCAAATCTGATTACTTCAACATGCC  
AGTCCATATGTTCCACAGAGCTGGTGGAGAAGGAGTTTTGGCGGCTCGTAAGCACTATTGAAGAAGAC  
GTCACGGTGGAGTATGGAGCTGATATTGCTTCAAAGAGTTTGGCAGTGGCTTTCTGTTTCGAGATGGGA  
AAATCAAGATTTCTCCTGAGGAAGAGGAATACCTGGATAGTGGCTGGAATTTGAACAACATGCCAGTGT



GGAGCAGTCTGTCCTTGCTCATATTACTGCTGATATATGTGGCATGAACTCCCCTGGTTGTATGTGGG  
 ATGTGCTTTTCTTATTCTGTTGGCACATTGAAGACCACTGGAGCTATTCAATCAACTACCTACACTGGG  
 GTGAGCCAAAAACCTGGTATGGAGTTCCAGGCTACGCTGCTGAGCAGCTAGAAAACGTGATGAAGAAGCT  
 CGCTCCTGAGCTCTTTGTGTCCCAGCCGGACCTGCTCCACCAGCTGGTGACCATCATGAACCCCAACT  
 CTGATGACTCATGAAGTGCCTGTTATCGAACGAATCAGTGTGCTGGGGAGTTTGAATACGTTTCCAA  
 GAGCTACCACAGTGGCTTCAACCAAGGTTTTAATTTTGGCGAGGCTGTTAACTCTGCATGTTGATTG  
 GTCGCCATTGGGCCCGCAGTGTGTGGAGCATTATCGCTTGTGCACCGTTATTGTGCTTTTCCCACGAT  
 GAAATGATATGCAAAAATGGCTTCTAAGGCTGATGTATTAGACGTTGTGGTAGCGTCAACTGTTTCCAGAA  
 ACATGGCCATCATGATCGAGGACGAGAAAAGCTTTAAGGAAAAGTTCGGAAAATTGGGAGTAATTGATTC  
 TGAAAAGATGGATTTTGGAGCTTGGCCAGATGATGAGCGGCAGTGTATAAAAATGCAAACTACATGCTTC  
 ATGTCTGCCATCTCCTGCTTTGTAACCTGGCCTACTTGTGGCTACATCATGTGAAAGAATTGTGTT  
 CTTGCCCCCGTATAAGTATAACCTGCGGTATAGATACTCTGGATGATCTCTATCCAATGATGAATGC  
 ATTAAGCTTCGAGCAGAGTCTTACAATGAATGGCCCTTAAATGTGAATGAAGCCTTGAAGCAAAGATC  
 AATAAGAAGAAAAGTCTTGTGAGCTTTAAAGCTTTGATTGAAGAATCAGAAATGAAAAAATCCCAGACA  
 ATGATCTTTTGGCTCACCTTCGACTAGTCACGCAGGATGCAGAAAAGTGTGCCTCTGTTGCCAGCAGTT  
 GCTTAATGGCAAAAGGCAACAAGGTATCGATCTGGTGGAGGAAAAGTCTCAGAATCAGCTGACGGTGAAT  
 GAACCTAGACAGTTTGTGACTCAGCTGTATGCTCTGCCGTGCGTCCTTAGTCAGACACCGTTGCTAAAGG  
 ATCTCTTGAATCGTGTGGAAAGTTTCCAACAGCAAAGCCAAAACTACTGTCTGAGGAAATGCCTAGCGC  
 TGCCGAGCTACAGGAGTTGCTGGATGTCAGCTTTGAATTTGATGTTGAGCTTCCACAGCTCACTGAGATG  
 CGCATTGCTTAGAGCAGGCCCGCTGGCTGGAAGAGGTTGAGCAGGCTTGCCTGGACTCCAGCTCCCTTT  
 CTTTGGATGATATGAGACGACTCATAGACTTAGGGTGGGGTGGCTCCATTTCTGCTGTGGAGAAAAGC  
 TATGGCCCGCTGCAGGAGCTGCTAACAGTGTGAGAACTGGGACGACAAGCAAGAGTCTCTCAGACA  
 CCAAGACCACGGCATTCTTTGAGTAGCTTGTACAGCAGTCAAAGAGATGGAGGAGATCCCCGCCTACC  
 TGCCCAATGGTACAGTCCCTGAAGGATTCTGTGCAAAAGAGCCAGAGACTGGGTTTCCAGATGTGGATGCATT  
 GCAGGCAGGAGGACGTGTGCCAGTGTAGAGACTCATTGAACCTGTTGCAAGAGGCCGATCTATCCCA  
 GTACATCTCAATCTTTACCAAGATTGGAATGTTAGTAGCTGAAGTTCATGCATGGAAAGAATGTGCTG  
 CTAACAATTCTTGCCTGAGAATTCTACATATTCTCTGTTAGAGGTTCTTTGCCCTCGGTGTGACATTGG  
 CCTTTTGGGGCTGAAAAGGAAACAGAGAAAAGTTGAAGGAGCCCTTGGCGAGTGGAAAGAAGAGAAGCACC  
 AAGTTAGAGAGCCTGAGCGATCTGGAGAGGCTCTGATGGAGAGCAAAGAGACTGCGGCAGCTATGGCAA  
 CTCTTGGGAAGCTCGCCTACGAGAGATGGAAGCTTTGCAGTCTCTCAGATTTGCCAATGAAGAGAATT  
 GCTGTACCTGTCCAAGACTTAGAGATGAAAGTCTGCTTGTGTCAGAAGACTCCAGCCACTCCCATGATT  
 CAGTGTGAACTCTGCAGGATGCTTTCCATACTAGTTGTGTGGCAGCACCCAGTATTTACAAAAGCTCCC  
 GAATCTGGCTTTGTCTCACTGTGCGAGGTCAGAGAAGCCTCCATTAGAGAAAATTTGCTCTGCTGGC  
 CTCCCTACAGCGTATACGAGTTCGTTCTTCTGAAGGAGATGCACTCCGATACATGATTGAAAAGAACCGTG  
 AACTGGCAACATAGAGCCAGCAGCTGCTTTCTCAGGGAATCTAAAACCTGTGCAAGACCAAGTGGGTT  
 CTGGACTGTTGTCTAGCAGATGGCCAGCCTCAGCAGGACAGGCATCAGCAACAGACAAGGTGTCTCAGCC  
 TCCTGGCAACAATCCTTTTCAATGGCCGATGACTGGGACAACAGAACCTCATATTTACTCTCCCTTC  
 TCTACTGGACAGAGTTGTCTCCCCCTCCATGGTTTGTGAGTCCAGAAGTGAATGAATTGCTGATGGAAGCCC  
 AGCTGTCCAGGTATCCCTTCTGAAATTCAGGAGCTTTATCAGACTCTACTTAAGCCAAGCTCTGT  
 TCAGCAAGCTGACCGAAGTTTACCAGTTAGATCCAGCAGTGAAGAAGACGATTGCCTTCGAGGAAACGA  
 GATGCAATCAACAGTCTGAGAGGAAAAGTGAAGGCGCCGAGAAAGAGAAGGCCTTCTAGCGAGCGGT  
 GGGATCGAGTTAAACACATGCGGACCCCAAAAAGAAAATCAAAGTGAATCACCCCAAGGACATGGA  
 CAGTTTCAAGTTAGAAAGAGAGCGTAGCTATGACTTAGTGCATAATGCTGAAAACCTATCCCTGCCCTCA  
 GACACATCTACTCCGAACAGGAGGACTCTGAGGATGAAGATGCCATCTGTCCAGCTGTGAGCTGCCTGC  
 AGCCAGAAGGAGATGAGGTGGACTGGTCCAGTGTGATGGCAGCTGCAATCAGTGGTTTCCAGGCTGTG  
 TGTGGTGTCTCTCCAGAGATGGCAGAGAAGGAAGACTACATCTGTGTGCGCTGTACTGGGAAGGACGCA  
 CCAAGCCGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCTCTCAGAAAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR212028 representing NM\_152895  
 Red=Cloning site Green=Tags(s)

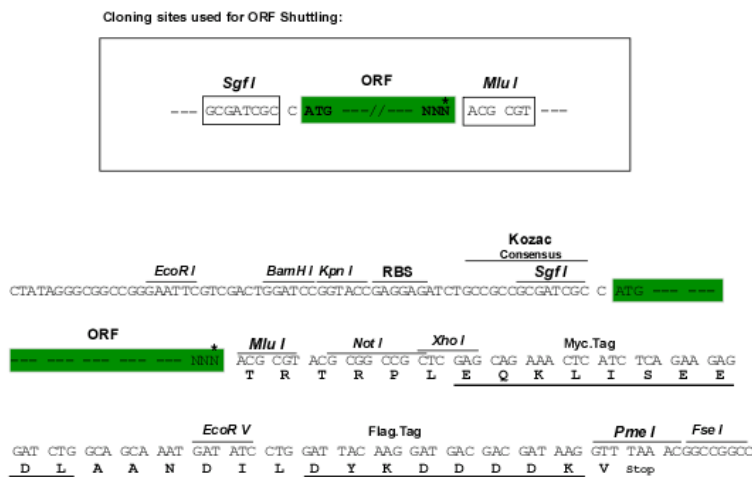
```
MEPATTLPGP RPALPLGGPGPLGEFLPPPECPVFEP SWEEFADPF AF IHKIRPIAEQTGICKVRPPDPW
QPPFACVDKLFHTPRIQR LNELEAQTRVKLNFLDQIAKYWELQGSTLKI PHVERKILD LFLQNLKVAEE
GGF AVVCKDRKWKIATKMGFAPGKAVGSHIRGHYERILNPNYFLSGDSL RCLQKPNL TSDTKDKEYKP
HDIPQRQSVQPAETCPPARRAKRMRAEAMNIKIEPEEATEARTHNLRRRMGCTTPKWENEKEMKSTIKQE
PTEKDCLESEKEKPKSRAKKTATAVDLYVCLLCGSGNDEDRLLL CDGCDDSYHTFCLVPPLHDVPGKD
WRCPKCLAQE CNK PQEAFGF EQAARDYTLRTFGEMADAFKSDYFNMPVHMVPT ELVEKEFWRLVSTIEED
VTVEYGADIASKEFGSGFPVRDGKIKISPEEEYLD SGWNLNMPVMEQSVLAHITADICGMKLPWL YVG
MCFSSFCWHIEDHWSYSINYLHWGEPKTWYGVPGYAAEQLE NVMKKLAPELFVSQPDLLHLQVTIMNPNT
LMTHEVPVYRTNQCAGEFVITFPRA YHSGFNQGFNFAEAVNFCTVDWLP LGRQCVEHYRLLHRYCVF SHD
EMICKMASKADVL DVVVASTVQKDMAIMIEDEKALRETVRKLGVIDSERMDFELLPDDERQCIKCTTTCF
MSAISCSCCKPGLLVCLHHVKELCSCPPYKYNLRYRYTLDDL YPMMNALKLRAESYNEWALNVNEALEAKI
NKKKSLVSFKALIEESEMKKFPDNDLLRHLRLVTQDAEKASVAQQL LNKQRQTRYRSGGKKSQNQLTVN
ELRQFVTQLYALPCVLSQTPLLKDLLNRVEDFQQQSQKLLSEEMPSAAELQELL DVSFDFVDEL PQLTEM
RIRLEQARWLEEVQQA CLDSSSLSLDDMRRLIDLGVGLAPYSAVEKAMARLQELL TVSEHWDDKAKSLLR
ARPRHLSLSSLATAVKEMEEIPAYLPNGTVLKDSVQRARDWVQD DALQAGGRVPVLETLIELVARGRSIP
VHLNSLPRLEMLVAEVHAWKECAAKTFLPENSTYSLLEVL CPRCDIGLLGLKRKQRKLKEPLPSGKKRST
KLESLSDLERALMESKETAAAMATLGEARLREMEALQSLRFANEKLLSPVQDLEMKVCLCQKTPATPMI
QCEL CRDAFHTSCVAAPSIQS SRIWLCPHCRRSEKPPLEKILPLLASLQRIRVRLPEGDALRYMIERTV
NWQHRAQQLLSSGNLKLVDQVGSGLLSSRWPASAGQASATDKVSQPPGTT SFSLPDDWDNRTSYLHSPF
STGQSC LPLHGLSPEVNELLMEAQLLQVSLPEIQEL YQTLTKPSSVQQADRSSPVRSSSEKNDCLRGRK
DAINSPERKLR RPEREGLPSEWRDRVKHMRTPQKKKIKLSHPKDMDSFKLERERSYDLVRNAETHSLPS
DTSYSEQEDSEDEDAICPAVSCLQPEGDEVDWVQC DGCNQWFHQVQVGVSP EMAEKEDYICVRCTGKDA
PSRK
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9034\\_b06.zip](https://cdn.origene.com/chromatograms/mm9034_b06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

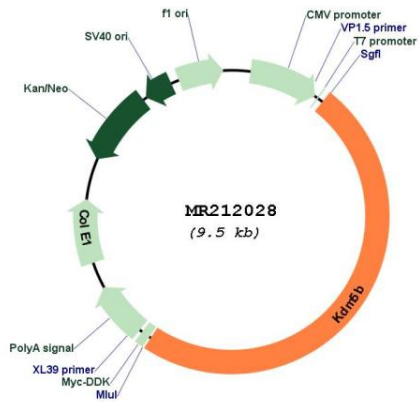


\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_152895

<b>ORF Size:</b>	4632 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_152895.2</a> , <a href="#">NP_690855.2</a>
<b>RefSeq Size:</b>	6300 bp
<b>RefSeq ORF:</b>	4635 bp
<b>Locus ID:</b>	75605
<b>UniProt ID:</b>	<a href="#">Q80Y84</a>
<b>Cytogenetics:</b>	1 58.24 cM
<b>MW:</b>	176 kDa
<b>Gene Summary:</b>	This gene encodes a lysine-specific histone demethylase that belongs to the jumonji/ARID domain-containing family of histone demethylases. The encoded protein is capable of demethylating tri-, di- and monomethylated lysine 4 of histone H3. This protein plays a role in the transcriptional repression or certain tumor suppressor genes and is upregulated in certain cancer cells. This protein may also play a role in genome stability and DNA repair. Homozygous mutant mice display decreased body weight, decreased female fertility, lower uterine weight, and a delay in mammary development. Knockout of this gene has also been associated with embryonic lethality. [provided by RefSeq, Dec 2016]

Product images:



Circular map for MR212028