

## Product datasheet for **RG211590**

### **KDM3B (NM\_016604) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KDM3B (NM_016604) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDM3B
Synonyms:	5qNCA; C5orf7; DIJOS; JMJD1B; NET22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211590 representing NM_016604 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGACGCGGCGGCCTCCCCGGTGGGCAAGCGGCTGCTGCTGCTGTTTCGCGGACACTGCGGCCTCAG  
CCTCGGCCTCGGCTCCCGCGGCGCAGCGGCGAGCGGAGATCCGGGGCCTGCGCTGCGCACTCGAGCCTG  
GCGGGCCGGCACGGTGGCGGCCATGAGCGGGCGGTGCCCAAGGACCTAGCGATCTTTGTAGAATTTGAT  
GGCTGTAAGTGAAGCAACTCCTGGTAAAAGTTTCATGCTGAGGAAGTTATCGTCTTCTGCTGGAAG  
GGTCTCTTGTATGGGCGCCCGTGAGGACCCAGTCTTCTCCAGGGCATTGAGTCTCCATTGCACAATG  
GCCAGCCCTGACTTTTACTCCCTTGTAGATAAACTGGGTTTGGGTTCTGTGTTCCAGTGAATATCTT  
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AAAACCAGATTCTTTGGAAATGCTGCACTGAGAGAAACAGTTAATGCTTTGATCAGTGACCAAAAGCT  
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TCAAAGCGAGGGGGTACGTAAAAGCAGTAAAATCTTCAAAGGAAAGAAGAAGAGAGAAAGCATAGAG  
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GAATGCCAGTGGAGAGCCAGGGCTGGATCAGAGAGCCAAGCAGCCACCGTCTACATTTGCCCCAGATA  
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CAGTCCAATGGTGTCTAGCCACAGAGAACAACCTTTGGGCTTCTCTTTGGCTGTAGCTCTGCACAAG  
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 CTTGAGAGCCTGAGCTCAGGCCTGTGTAAGGCAGATCCGTTCTTGAACAGACACTAAGCCAGGCTCTA  
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 GAGCCTCTAAATGCCCGTACCCAGAGAATCATGAAAATCTATTTTACAGCCCCCAAATGTCCCGA  
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 TCACTCCTCTGCAGATTCGGCATCTTTAGCAAAGAAGAAACCCCTCTTATTACAACCTGACTCCTCAAG  
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 AATTGGAAGATCTTCCGGGAGTGTGGAAGCAAGGTGAGCCAGTCTGGTTTCCGGGGTACATAAAAAGC  
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 TACAACGCCTATGGGTTGATAACAGCAGAAGATAGAAGAGTTGGTACAACAAATCTTCACTTAGATGTGT  
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 CCTCCGTAAGCGACTCTATGAGGAGTATGGCGTGAAGGCTGGGCTATTGTGAGTTCCTAGGTGATGCT  
 GTTTTCATACCTGCTGGAGCCCCACACCAGTTCACAATCTATACAGTTGCATAAAAGTAGCAGAAGACT

TTGTATCTCCAGAACATGTAAGCACTGTTCCGCCTGACTCAGGAATTCAGGCATCTCTCTAACACTCA  
TACAAATCATGAGGATAAACTGCAGGTGAAGAACATCATTTACCATGCAGTAAAAGATGCGGTTGGCACC  
CTCAAGGCTCATGAATCCAAACTGGCAAGGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG211590 representing NM\_016604  
Red=Cloning site Green=Tags(s)

MADAAASPVGKRLLLLFADTAASASASAPAAAAASGDPGPALRTRAWRAGTVRAMSGAVPQDLAIFVEFD  
GCNWKQHSVWKVHAEVIVLLLEGLVWAPREDPVLLQGIRVSIQWPALFTFTPLVDKLLGLGSVVPVEYL  
LDRELRFLLSDANGLHLFQMGTDSONQILLEHAALRETVNALISDQKLQEIFSRGPYSVQGHVRKVIYQPEG  
EEGWLYGVVSHQDSITRLMEVSVTESGEIKSVDPRLIHVMLMDNSTPQSEGGTLKAVKSSKGGKKRESIE  
GKDGRRRKASDSGCDPASKKLGDRGEVDSNGSDGGEASRGPWKGGNASGEPGLDQRAKQPPSTFVPQI  
NRNIRFATYTKENGRTLVVQDEPVGGDTPASFPTYSTATGQTPLAPEVGGAEKAEAGKTLQVGGQIVAS  
AAVVTTASSTPNTVIRISDTGLAAGTVPEKQKGSRSQASGENSRNSILASSGFAPLPSSSQPLTFGSGRS  
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LESLSGLCKGRSVLGTDTKPGSKAGSSVDRKVAESMPTLTPAFPRSLNARTPENHENLFLQPPKLSR  
EEPSNPFLLAFVEKVEHSPFSSFAQASGSSSATTVTSKVAPSWPESHSSADSASLAKKKPLFITDSSK  
LVSGVLGSALTSGGPSLSAMGNRSSSPTSSLTQPIEMPTLSSSPTTEERTVPGGQDNPPLLKTFSNVFG  
RHSGGFLSSPADFSQENKAPFEAVKRFSLDERSLACRQSDSSTNSDLSDLSDSEEQLQAKTGLKGIPEH  
LMGKLGPNGERSAELLLGKSKGQAPKGRPRTAPLKVQSVLKDVSQVKKLQSGEPFLQDGCINVAPH  
LHKCRECLERYRKFKEQEQQDDSTVACRFFHFRLIFTRKGVLRVEGFLSPQQSDPDAMNLIWIPSSSLAE  
GIDLETSKYILANVGDQFCQLVMSEKEAMMMVEPHQKVAWKRAVRGVREMCDCVETTLEFNHWCRCGCF  
GVCLDCYLRKSRPRSETEEMGDEEVSWLKCAKQGSHEPENLMPTQIIPGTALYNI GDMVHAARGKWI  
KANCPICSRQNKSVLRPAVTNGMSQLPSINPSASSGNETTFSGGGPAPVTTPEPDHVPKADSTDIRSEE  
PLKTDSSASNSSELKAI RPPCPDTAPPSSALHWLADLATQKAKEETKEAGLSRVLNKESSHSPFLDSD  
NSTAKVSPLTPKLFNSLLL GPTASNKTEGSSLRDLLHSGPGKLPQTPLDTGIPFPVSTSSAGVKS  
SLPNFLDHIIASVVENKKTSDASKRACNLDTQKEVKEMVMGLNVLDPHTSHSWLCDGRLLCLHDP  
SNKNWKIFRECWKQGPVLSGVHKKLSELWKPEAFSQEFGDQDVLVNCRNCAIISDVKVRDFWDGFEIIC  
KRLRSEDGQPMVLKLDWPPGEDFRDMMPTRFEDLMENLPLPEYTKRDGRLNLASRLPSYFVRPDLGPKM  
YNAYGLITAEDRRVGTTLHLDVDSDAVNVMVYVGIPIGEGAHDEEVKTIIDEGDADEVTKQRIHDGKEK  
P GALWHIYAAKDAEKIRELLRQVGEQGENPPDHDPIDHQSWYLDQTLRKRLYEEYGVQGWAI VQFLGDA  
VFIPAGAPHQVHNLVSCIKVAEDFVSPEHVKHCFLRQEFRHLSNTHTNHEDKLQVKNIIYHAVKDAVGT  
LKAHESKLARS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_016604
<b>ORF Size:</b>	5283 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_016604.3</a> , <a href="#">NP_057688.2</a>
<b>RefSeq Size:</b>	6830 bp
<b>RefSeq ORF:</b>	5286 bp
<b>Locus ID:</b>	51780
<b>UniProt ID:</b>	<a href="#">Q7LBC6</a>
<b>Cytogenetics:</b>	5q31.2
<b>Domains:</b>	JmjC
<b>Gene Summary:</b>	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Demethylation of Lys residue generates formaldehyde and succinate. May have tumor suppressor activity.[UniProtKB/Swiss-Prot Function]