

Product datasheet for **SC125457**

KDM5B (NM_006618) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: KDM5B (NM_006618) Human Untagged Clone
Tag: Tag Free
Symbol: KDM5B
Synonyms: CT31; JARID1B; MRT65; PLU-1; PLU1; PPP1R98; PUT1; RBBP2H1A; RBP2-H1
Mammalian Cell Selection: None
Vector: [pCMV6-XL4](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_006618 edited
 ATGGAGGCGGCCACCACACTGCACCCAGGCCCGCCCGCGCCCTCGGGGGCCCC
 GGCCCGCTGGGCGAGTTCCTGCCTCCACCCGAGTGCCCGGTCTTGAACCCAGCTGGGAA
 GAGTTCGCGGACCCTTCGCTTTCATCCACAAGATCCGGCCCATAGCCGAGCAGACTGGC
 ATCTGTAAGGTGCGGCCCGCCGATTGGCAGCCACCATTTGCATGTGATGTTGATAAA
 CTTCAATTTACGCCACGTATCCAGAGACTGAATGAATTGGAGGCCAAACTCGTGTA
 TTGAATTTCTGGACCAGATTGCAAAGTACTGGGAGTTACAGGGAAGTACTCTGAAAAT
 CCACATGTGGAGAGGAAGATCTGGACTTATTTACAGTAAATAAGTTAGTTGCAGAAGAA
 GGTGGATTTGCAGTTGTTGCAAGGATAGAAAATGGACCAAAATGCTACCAAGATGGGG
 TTTGCTCCTGGCAAAGCAGTGGGCTCACATATCAGAGGGCATTATGAACGAATTTCTCAAC
 CCCTACAACCTTATCCTGTCCGGAGACAGCCTAAGGTGTTGCAGAAGCCAAACCTGACC
 ACAGACACTAAGGACAAGGAGTACAAACCCATGATATCCCCAGAGGCAGTCTGTGCAG
 CCTTCGAAACGTGCCCCCGCCGACGAGCAAACGCATGAGAGCAGAGGCCATGAAT
 ATAAAAATAGAACCCGAGGAGACAACAGAAGCCAGAATCATAATCTGAGACGTGCAATG
 GGTTGTCCAACCTCAAAATGTGAAAATGAGAAAGAAATGAAGAGTAGCATCAAGCAAGAA
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 AAAAAAGCCACCAATGCTGTGGACCTGTATGTCTGCTTTTATGTGGCAGTGGCAATGAT
 GAAGACCGGCTACTGTTGTGTGATGGCTGTGATGACAGTTACCATACTTTTGTGTTGATC
 CCACCTCTCCATGATGTTCCCAAGGGAGACTGGAGGTGCCTAAGTGTGTTGGCTCAGGAA
 TGTAGTAAGCCACAAGAAGCATTGCGCTTTGAACAAGCAGCCAGGACTATACCCTCCGT
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 GTCCCCACAGAGCTTGTGAGAAAGAAATTTGGAGACTAGTAAGCACTATTGAGGAGGAT
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 CGAGATGGGAAAATCAAACCTCTCACCTGAGGAAGAGGAGTATCTTGATAGTGGCTGGAAT
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 GGCATGAAACTTCTTGGTTGTATGTGGGAATGTGCTTTTCTTATTCTGTTGGCATT
 GAAGACCACTGGAGCTATTCAATTAACACTTGCAGTGGGGTGGCCAAAACCTGGTAT



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GGAGTCCCAGGGTATGCTGCTGAGCAGCTAGAAAATGTAATGAAGAACTAGCTCCAGAA
CTCTTTGTGTCCCAGCCGATCTCCTCCATCAGCTTGTGACCATCATGAACCCCAATACC
CTGATGACTCATGAAGTGCCTGTTTACCGAACTAATCAGTGTGCTGGGGAGTTTGTGATT
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TGTGAGAGGCCCCAGCTGCCCTATGATTCAATGTGAACTCTGCAGGGATGCTTTCCAC
ACCAGTTGTGGCGGTACCCAGTATTTACAGGGCCTGCGAATCTGGCTTTGTCCCAT
TGTGCGGAGGTGAGAGAACTCCATTAGAGAAAATTTGCCCCCTGCTCGCCTCCCTTCA
CGTATCCGAGTTCGCCTTCTGAGGGAGATGCACTTCGATATATGATTGAAAGAACCCTG
AACTGGCAGCACAGAGCCAGCAACTGCTTTGTCAGGGAATCTTAAATTTGTGCAAGAT
CGAGTGGGCTCAGGACTGTTATATAGCAGATGGCAAGCCTCAGCAGGACAGGTGTCAGAC
ACAAACAAGGTATCTCAACCTCCTGGCACAACATCATTTTCTTTGCCTGATGACTGGGAC
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GGTGTAGTCCAGAAGTGAATGAACTATTGATGGAAGCCAGCTGCTCCAGGTATCCCTT
CCTGAAATTCAGGAACCTTACCAGACTTACTTGCAAAGCCAAGCCCTGCTCAGCAGACT
GACCGAAGCTCACCAGTGAAGCCAGCAGTGAAGAATGACTGTTGCCGAGGGAAGCGA
GATGGAATTAACAGTCTTGAGAGAAAATGAAGAGACGCTGGAAGAGAGGGCCTCTCC
AGTGAGCGGTGGAAACGAGTTAAGAAAATGCGGACCCCCAAAAAGAAAGAAATCAAAGT
AGCCACCCCAAGGACATGAACAATTTCAAGTTAGAGAGAGAGCGTAGCTATGAATTAGTT
CGTTCTGCTGAAACTCATTCCCTGCCCTCAGACACATCCTATTCCGAACAGGAAGACTCT
GAGGATGAAGATGCCATCTGCCAGCTGTGAGCTGCCTGCAGCCAGAAGGAGATGAGGTG
GACTGGTCCAGTGTGATGGCAGCTGCAATCAGTGGTTTCATCAGGTCTGTGTTGGTGTG
TCCCCAGAGATGGCAGAGAAAGAAGACTACATCTGTGTGCGCTGTACTGTGAAGGACGCA
CCAAGCCGAAAGTAA

Restriction Sites:	NotI-NotI
ACCN:	NM_006618
Insert Size:	6400 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_006618.3</u> , <u>NP_006609.3</u>
RefSeq Size:	6393 bp
RefSeq ORF:	4635 bp
Locus ID:	10765
UniProt ID:	<u>Q9UGL1</u>
Cytogenetics:	1q32.1
Domains:	ARID, PHD, JmjC, JmjN, zf-C5HC2
Protein Families:	Druggable Genome, Transcription Factors

Gene Summary:

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 of certain tumor suppressor genes and is upregulated in certain cancer cells. This protein may also play a role in genome stability and DNA repair. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Nov 2016]
Transcript Variant: This variant (2) lacks an exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.