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# Product datasheet for SC125274

## KDM1A (NM_015013) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | KDM1A (NM_015013) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | KDM1A |
| **Synonyms:** | AOF2; BHC110; CPRF; KDM1; LSD1 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**Fully Sequenced ORF:**

>OriGene ORF within SC125274 sequence for NM_015013 edited (data generated by NextGen Sequencing)

ATGTTATCTGGGAAGAAGGCGGCAGCCGCGGCGGCGGCGGCTGCAGCGGCAGCAACCGGG
ACGGAGGCTGGCCCTGGGACAGCAGGCGGCTCCGAGAACGGGTCTGAGGTGGCCGCGCAG
CCCGCGGGCCTGTCGGGCCCAGCCGAGGTCGGGCCGGGGGCGGTGGGGGAGCGCACACCC
CGCAAGAAAGAGCCTCCGCGGGCCTCGCCCCCCGGGGGCCTGGCGGAACCGCCGGGGTCC
GCAGGGCCTCAGGCCGGCCCTACTGTCGTGCCTGGGTCTGCGACCCCCATGGAAACTGGA
ATAGCAGAGACTCCGGAGGGGCGTCGGACCAGCCGGCGCAAGCGGGCGAAGGTAGAGTAC
AGAGAGATGGATGAAAGCTTGGCCAACCTCTCAGAAGATGAGTATTATTCAGAAGAAGAG
AGAAATGCCAAAGCAGAGAAGGAAAAGAAGCTTCCCCCACCACCCCCTCAAGCCCCACCT
GAGGAAGAAAATGAAAGTGAGCCTGAAGAACCATCGGGTGTGGAGGGCGCAGCTTTCCAG
AGCCGACTTCCTCATGACCGGATGACTTCTCAAGAAGCAGCCTGTTTTCCAGATATTATC
AGTGGACCACAACAGACCCAGAAGGTTTTTCTTTTCATTAGAAACCGCACACTGCAGTTG
TGGTTGGATAATCCAAAGATTCAGCTGACATTTGAGGCTACTCTCCAACAATTAGAAGCA
CCTTATAACAGTGATACTGTGCTTGTCCACCGAGTTCACAGTTATTTAGAGCGTCATGGT
CTTATCAACTTCGGCATCTATAAGAGGATAAAACCCCTACCAACTAAAAAGACAGGAAAG
GTAATTATTATAGGCTCTGGGGTCTCAGGCTTGGCAGCAGCTCGACAGTTACAAAGTTTT
GGAATGGATGTCACACTTTTGGAAGCCAGGGATCGTGTGGGTGGACGAGTTGCCACATTT
CGCAAAGGAAACTATGTAGCTGATCTTGGAGCCATGGTGGTAACAGGTCTTGGAGGGAAT
CCTATGGCTGTGGTCAGCAAACAAGTAAATATGGAACTGGCCAAGATCAAGCAAAAATGC
CCACTTTATGAAGCCAACGGACAAGCTGTTCCTAAAGAGAAAGATGAAATGGTAGAGCAA
GAGTTTAACCGGTTGCTAGAAGCTACATCTTACCTTAGTCATCAACTAGACTTCAATGTC
CTCAATAATAAGCCTGTGTCCCTTGGCCAGGCATTGGAAGTTGTCATTCAGTTACAAGAG
AAGCATGTCAAAGATGAGCAGATTGAACATTGGAAGAAGATAGTGAAAACTCAGGAAGAA
TTGAAAGAACTTCTTAATAAGATGGTAAATTTGAAAGAGAAAATTAAAGAACTCCATCAG
CAATACAAAGAAGCATCTGAAGTAAAGCCACCCAGAGATATTACTGCCGAGTTCTTAGTG
AAAAGCAAACACAGGGATCTGACCGCCCTATGCAAGGAATATGATGAATTAGCTGAAACA
CAAGGAAAGCTAGAAGAAAAACTTCAGGAGTTGGAAGCGAATCCCCCAAGTGATGTATAT
CTCTCATCAAGAGACAGACAAATACTTGATTGGCATTTTGCAAATCTTGAATTTGCTAAT
GCCACACCTCTCTCAACTCTCTCCCTTAAGCACTGGGATCAGGATGATGACTTTGAGTTC
ACTGGCAGCCACCTGACAGTAAGGAATGGCTACTCGTGTGTGCCTGTGGCTTTAGCAGAA
GGCCTAGACATTAAACTGAATACAGCAGTGCGACAGGTTCGCTACACGGCTTCAGGATGT
GAAGTGATAGCTGTGAATACCCGCTCCACGAGTCAAACCTTTATTTATAAATGCGACGCA
GTTCTCTGTACCCTTCCCCTGGGTGTGCTGAAGCAGCAGCCACCAGCCGTTCAGTTTGTG
CCACCTCTCCCTGAGTGGAAAACATCTGCAGTCCAAAGGATGGGATTTGGCAACCTTAAC
AAGGTGGTGTTGTGTTTTGATCGGGTGTTCTGGGATCCAAGTGTCAATTTGTTCGGGCAT
GTTGGCAGTACGACTGCCAGCAGGGGTGAGCTCTTCCTCTTCTGGAACCTCTATAAAGCT
CCAATACTGTTGGCACTAGTGGCAGGAGAAGCTGCTGGTATCATGGAAAACATAAGTGAC
GATGTGATTGTTGGCCGATGCCTGGCCATTCTCAAAGGGATTTTTGGTAGCAGTGCAGTA
CCTCAGCCCAAAGAAACTGTGGTGTCTCGTTGGCGTGCTGATCCCTGGGCTCGGGGCTCT
TATTCCTATGTTGCTGCAGGATCATCTGGAAATGACTATGATTTAATGGCTCAGCCAATC
ACTCCTGGCCCCTCGATTCCAGGTGCCCCACAGCCGATTCCACGACTCTTCTTTGCGGGA
GAACATACGATCCGTAACTACCCAGCCACAGTGCATGGTGCTCTGCTGAGTGGGCTGCGA
GAAGCGGGAAGAATTGCAGACCAGTTTTTGGGGGCCATGTATACGCTGCCTCGCCAGGCC
ACACCAGGTGTTCCTGCACAGCAGTCCCCAAGCATGTGA

Clone variation with respect to NM_015013.3

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_015013 unedited
AATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCGGGAGCGCGCTTGGCGCG
TGCGTACGCGACGGCGGTTGGCGGCGCGCGGGCAGCGTGAAGCGAGGCGAGGCAAGGCTT
TTCGGACCCACGGAGCGACAGAGCGAGCGGCCCCTACGGCCGTCGGCGGCCCGGCGGCCC
GAGATGTTATCTGGGAAGAAGGCGGCAGCCGCGGCGGCGGCGGCTGCAGCGGCAGCAACC
GGGACGGAGGCTGGCCCTGGGACAGCAGGCGGCTCCGAGAACGGGTCTGAGGTGGCCGCG
CAGCCCGCGGGCCTGTCGGGCCCAGCCGAGGTCGGGCCGGGGGCGGTGGGGGAGCGCACA
CCCCGCAAGAAAGAGCCTCCGCGGGCCTCGCCCCCCGGGGGCCTGGCGGAACCGCCGGGG
TCCGCAGGGCCTCAGGCCGGCCCTACTGTCGTGCCTGGGTCTGCGACCCCCATGGAAACT
GGAATAGCAGAGACTCCGGAGGGGCGTCGGACCAGCCGGCGCAAGCGGGCGAAGGTAGAG
TACAGAGAGATGGATGAAAGCTTGGCCAACCTCTCAGAAGATGAGTATTATTCAGAAGAA
GAGAGAAATGCCAAAGCAGAGAAGGAAAAGAAGCTTCCCCCCACCACCCCTCAGCCCCAC
CTGNAGAAGAAATGAAAGTGAGCCTGAAAGACCATCGGGTGTGGNAGGCGCAGCTTTCCG
AGCCGACTTNCTCATGACCGGATGACTTCTCAGAAGCAGNCTGTTTCCAGAATTATCAGT
GGACCCACACAGACCCAGAAGGGTTTTCTTTCATTANAACCGACACTGCAGNTGTGGGTG
GATATCCAAGATCAGCTGCATTTGAGGCTCTNTNNCACATAAAAGCACCTATACAGGGTA
CGGTGCTTGCCACCGANTCCAGTATTNANAGCGTCATGGCTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_015013 unedited
ATGGACCGGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCAATTTTATATG
AAGTTTTATTCTCAAAATATAAAAAAAAAAACAAACCCCACACACCAAGGGACTAAGATG
ATGTTATTTCACAGCACTTGCTTGCCTCAGTCTTTACGAAGAACACAATTCCAAACTAAT
GGACAAGTTCCTCCCTGTGCTCTAGGTCATTCAAAGGAGGCAAGCTCCTTTGTCAAATCA
GGAGCTCCATCAGCTGATCAGGAGCCCAGATGCCAGGGTGGATTTTCTCAGTGGGATCTA
GTATTGCTAGAAGAGCCTTCCTTACATGGCAGAAACAGGCACATGGGCCTCTTCCCTTAG
AATGCATCTGTCTCACATGCTTGGGGACTGCTGTGCAGGAACACCTGGTGTGGCCTGGCG
AGGCAGCGTATACATGGCCCCCAAAAACTGGTCTGCAATTCTTCCCGCTTCTCGCAGCCC
ACTCAGCAGAGCACCATGCACTGTGGCTGGGTAGTTACGGATCGTATGTTCTCCCGCAAA
GAAGAGTCGTGGAATCGGCTGTGGGGCACCTGGAATCGAGGGGCCAGGAGTGATTGGCTG
AGCCATTAAATCATAGTCATTTCCAGATGATCCTGCAGCAACATAGGAATAAGAGCCCCG
AGCCCAGGGATCAGCACGCCAACGAGACACCACAGTTTCTTTGGGCTGAGGTACTGCACT
GCTACCAAAAATCCCTTTGAGAATGGCAGGCATCGGCCAACATCACATCGNCACTTATGT
TTTCATGATCCAGCAGCTTCTCTGCCACTATGCCACAGTATGGNAGCTTATGAGGTTCAG
AAGAGAAGAGCTCACCCTGCTGGCAGTGACTGCCACATGCCCGCCAATTGACCTTGGATC
CAGACACCGATCAAACCACACCACTTGTAAGGTGCCAACCCATCTTTGACGCAAATGTTC
AT

**Restriction Sites:** NotI-NotI

**ACCN:** NM_015013

**Insert Size:** 3400 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).

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|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_015013.2, NP_055828.2 |
| **RefSeq Size:** | 3030 bp |
| **RefSeq ORF:** | 2559 bp |
| **Locus ID:** | 23028 |
| **UniProt ID:** | O60341 |
| **Cytogenetics:** | 1p36.12 |
| **Protein Families:** | Druggable Genome, Transcription Factors |
| **Gene Summary:** | This gene encodes a nuclear protein containing a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, though it silences genes by functioning as a histone demethylase. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]<br>Transcript Variant: This variant (2) lacks two alternate in-frame exons, compared to variant 1. The encoded protein (isoform b) is shorter than isoform a. |