

Product datasheet for **SC327571**

KDM4E (NM_001161630) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM4E (NM_001161630) Human Untagged Clone
Tag:	Tag Free
Symbol:	KDM4E
Synonyms:	JMJD2E; KDM4DL; KDM5E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327571 representing NM_001161630.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGTCTGTGCACTCCAGTCCCCAGAACACGAGTCATACCATCATGACGTTTTACCCAACCATGGAA
GAATTTGCAGATTTCAACACATATGTTGCTTACATGGAGTCCCAAGGCGCACATCAAGCTGGCCTTGCC
AAGGTAATTCACCCAAGGAATGGAAAGCCAGACAGATGTATGATGATATCGAAGACATCTTAATAGCC
ACTCCCTCCAGCAGGTGACCTCTGGGCAGGGAGGTGTGTTTACTCAATACCATAAAAAAGAAAGGCC
ATGAGGGTGGGGCAGTATCGCCGCTTGGCAAACAGTAAAAATATCAGACTCCGCCACACCAGAATTTT
GCAGATTTGGAGCAACGATACTGGAAGAGCCACCCCGTAATCCACCAATTTATGGTGCTGATATCAGC
GGCTCCTTATTTGAAGAAAGCACTAAACAATGGAACCTAGGACACCTGGGAACAATTCTGGACCTGTTG
GAGCAGGAATGTGGGTTGTCATCGAGGGTGTCAACACACCTACCTGTACTTTGGCATGTGAAGACC
ACGTTTGCCTGGCACACAGAGGACATGGACCTTTACAGCATCACTACCTGCACCTTTGGGGAGCCAAA
ACTTGGTACGTGGTGCCCCAGAACATGGTCAGCACCTGGAACGCCTGGCCAGGGAGCTCTCCAGAC
ATTTCTCGGGGCTGTGAGGCCTTCTGCGGCACAAAGTGCCCTCATCTCGCCTACAGTTCTCAAGGAA
AATGGGATTCCCTTCAATTGCATGACTCAGGAGGCTGGGGAGTTCATGGTGACCTTTCCCTATGGTAC
CATGCTGGCTTCAATCACGGCTTCAACTGCGCAGAAGCCATTAATTTGCCACTCCACGATGGATTGAT
TATGGCAAAATGGCCTCTCAGTGTAGCTGTGGGAGTCGACAGTGACCTTTTCCATGGACCCCTTTGTG
CGCATTGTGCAACCCGAGAGTTATGAGCTCTGGAACACAGGCAAGACTTGCCATTGTGGAACACACA
GAGCCCAGGGTTGCAGAAAGCCAAGAGCTGAGCAACTGGAGAGATGATATAGTACTTAGAAGAGCTGCT
CTGGGCTGAGGCTTCTCCAAACCTCACAGCCAGTGTCCACACAGCCTGTGCTCTCAGGGCACTGT
TACAACCAAAAGGCTGTGGCACTGATGCTGTGCTGGATCCGCATTCCAAAGCTCTGCATATCATACC
CAGACCCAGTCACCTACCTGGGATGTGAGCCAGGGTTCTTCTCCCTTCCACTGGAAGCTGGGGTTCT
GGTCGTGGTGTGGTGTGGTCAAGGTCAAGGTGAGGTGAGTGTGAGTGTGGTGTGGTGTGGTGTGGT
ACTCGAGAACTGGGGACTGAGGAGCCAACTGTTGAGCCTGCATCCAAGAGGCGCCTTTTAAATGGGTACA
AGGAGTAGAGCTCAAGGCCACAGGCCTCAGCTCCCGCTTGCCAATGATTTGATGACAAATCTGTCCCTT
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001161630
Insert Size: 1521 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

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:	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_001161630.1</u>
RefSeq Size:	2339 bp
RefSeq ORF:	1521 bp
Locus ID:	390245
UniProt ID:	<u>B2RXH2</u>
Cytogenetics:	11q21
MW:	56.8 kDa
Gene Summary:	The protein encoded by this intronless gene is a member of a large family of histone lysine demethylases, which use oxygen and 2-oxoglutarate to demethylate di- and trimethylated lys9 of histone H3. Derepression of genes by demethylases is sometimes involved in viral infection or carcinogenesis, so inhibitors of these enzymes are desired. [provided by RefSeq, Dec 2016]