

## Product datasheet for **RG240122**

### **KDM6A (NM\_001291417) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KDM6A (NM_001291417) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDM6A
Synonyms:	bA386N14.2; KABUK2; UTX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240122 representing NM_001291417. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
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ATGAAATCCTGCGGAGTGTGCTGCTACCGCCCGCTGCCGCCCGCTTTCCGGTGATGAGGAAAAG
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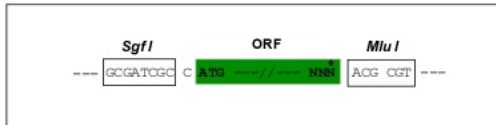
**Protein Sequence:** >Peptide sequence encoded by RG240122  
 Blue=ORF Red=Cloning site Green=Tag(s)

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 K A L L G K A V R C Y E S L I L K A E G K V E S D F F C Q L G H F N L L E D Y P K A L S A Y Q R Y S L Q S D Y W K N A A F L Y G L G L  
 V Y F H Y N A F Q W A I K A F Q E V L Y V D P S F C R A K E I H L R L G L M F K V N T D Y E S S L K H F Q L A L V D C N P C T L S N A E I  
 Q F H I A H L Y E T Q R K Y H S A K E A Y E Q L L Q T E N L S A Q V K A T V L Q Q L G W M H H T V D L L G D K A T K E S Y A I Q Y L Q K S  
 L E A D P N S G Q S W Y F L G R C Y S S I G K V Q D A F I S Y R Q S I D K S E A S A D T W C S I G V L Y Q Q Q N Q P M D A L Q A Y I C A V  
 Q L D H G H A A A W M D L G T L Y E S C N Q P Q D A I K C Y L N A T R S K S C S N T S A L A A R I K Y L Q N T S D N W S G G H A V S H P P  
 V Q Q Q A H S W C L T P Q K L Q H L E Q L R A N R N N L N P A Q K L M L E Q L E S Q F V L M Q Q H Q M R P T G V A Q V R S T G I P N G P T  
 A D S S L P T N S V S G Q P Q L A L T R V P S V S Q P G V R P A C P G Q P L A N G P F S A G H V P C S T S R T L G S T D T I L I G N N H  
 I T G S G S N G N P Y L Q R N A L T L P H N R T N L T S S A E E P W K N Q L S N S T Q G L H K G Q S S H S A G P N G E R P L S S T G P S  
 Q H L Q A A G S G I Q N Q N G H P T L P S N S V T Q G A A L N H L S S H T A T S G G Q Q G I T L T K E S K P S G N I L T V P E T S R H T G  
 E T P N S T A S V E G L P N H V H Q M T A D A V C S P S H G D S K S P G L L S S D N P Q L S A L L M G K A N N V G T G T C D K V N N I H  
 P A V H T K T D N S V A S P S S A I S T A T P S P K S T E Q T T T N S V T S L N S P H S G L H T I N G E G M E E S Q S P M K T D L L L V  
 N H K P S P Q I I P S M S V S I Y P S S A E V L K A C R N L G K N G L S N S S I L L D K P P P R P P S P Y P L P K D K L N P P T P S  
 I Y L E N K R D A F F P P L H Q F C T N P N N P V T V I R G L A G A L K L D L G L F S T K T L V E A N N E H M V E V R T Q L L Q P A D E N  
 W D P T G T K K I W H C E S N R S H T T I A K Y A Q Y Q A S S F Q E S L R E E N E K R S H H K D H S D S E S T S S D N S G R R R K G P F K  
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 W I N A G T V H W V Q A I G W C N N I A W N V G P L T A C Q Y K L A V E R Y E W N K L Q S V K S I V P M V H L S W N M A R N I K V S D P K  
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 T R T R P L E M E S D E S G L P A M E I E C R I T G T L N G V E F E L V G G G E G T P E Q G R M T N K M K S T K G A L T F S P Y L L S H V  
 M G Y G F Y H F G T Y P S G Y E N P F L H A I N N G G Y N T R I E K Y E D G G V L H V S F S Y R Y E A G R V I G D F K V M G T G F P E D  
 S V I F T D K I I R S N A T V E H L H P M G D N D L D G S F T R T F S L R D G G Y S S V V D S H M H F K S A I H P S I L Q N G G P M F A  
 F R R V E E D H S N T E L G I V E Y Q H A F K T P D A D A G E E R V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



Kozac  
Consensus

EcoRI    BamHI KpnI    RBS    SgfI    AscI

CTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII    NheI    RsrII    MluI    NotI    XhoI    GFP Tag

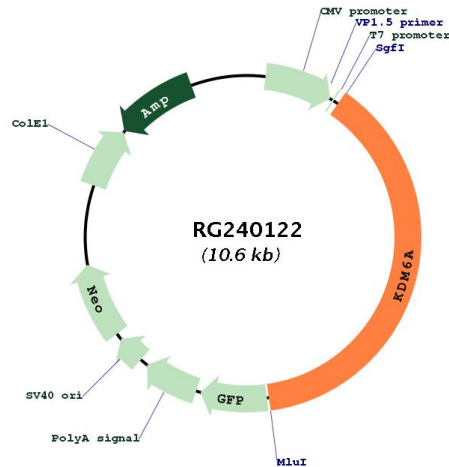
CAAGCTTAAGTACTAGCTAGCGGACCG    ACG CGT    ACG CGG    CCG    CTC GAG    ATG GAG AGC GAC --- --- ---

PmeI    FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT

- - - E E R V Stop

## Plasmid Map:



ACCN: NM\_001291417

ORF Size: 4068 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_001291417.1](#), [NP\\_001278346.1](#)

**RefSeq Size:** 5650 bp

**RefSeq ORF:** 4071 bp

**Locus ID:** 7403

**Cytogenetics:** Xp11.3

**MW:** 149.8 kDa

**Gene Summary:** This gene is located on the X chromosome and is the corresponding locus to a Y-linked gene which encodes a tetratricopeptide repeat (TPR) protein. The encoded protein of this gene contains a JmjC-domain and catalyzes the demethylation of tri/dimethylated histone H3. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2014]