

Product datasheet for **MG212060**

Jmjd3 (BC075632) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Jmjd3 (BC075632) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Jmjd3 |
| Synonyms: | mKIAA0346, RP23-5O23.5, 1700064E03Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG212060 representing BC075632 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

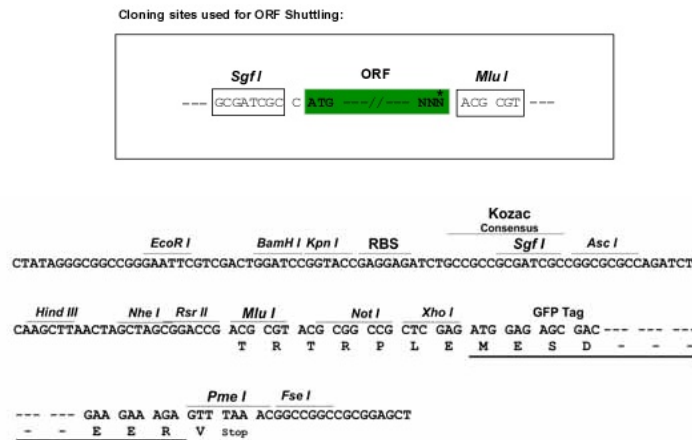
Protein Sequence: >MG212060 representing BC075632
 Red=Cloning site Green=Tags(s)

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 VEERRLRMADL TISHCAADVMRASKNAKVKGKFRESYLSPAQSVKPKINTEEKLPREKLNPTPSIYLES
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 DLSDAKRWKQLQEL LKLP AFMRVTSTGNMLSHVGH TILGMNTVQLYMKVPGSRTPGHQENNNFCSVNIN
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 QATGWCNNIAWNVGLTAYQYQLALERYEWEVKNVKSIVPMIHVSWNVARTVKISDPDLFKMIKFCLLQ
 SMKHCQVQRESLVRAGK IAYQGRVKDEPAYCNECDVEVFNILFVTSENGRNTYL VHCEGCARRRSAG
 LQGVVLEQYRTEELAQA YDAFTLAPASTR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

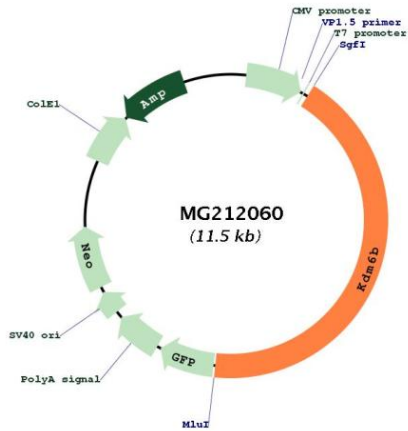
Cloning Scheme:



ACCN: BC075632

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| ORF Size: | 4925 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). |
| 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: | BC075632 , AAH75632 |
| RefSeq Size: | 5680 bp |
| RefSeq ORF: | 4925 bp |
| Locus ID: | 216850 |
| Cytogenetics: | 11 B3 |
| Gene Summary: | Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation (PubMed:17825402). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression by acting as a link between T-box factors and the SMARCA4-containing SWI/SNF remodeling complex (PubMed:21095589). [UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MG212060