

## Product datasheet for **RG240245**

### JMJD1C (NM\_001282948) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JMJD1C (NM_001282948) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	JMJD1C
Synonyms:	KDM3C; TRIP-8; TRIP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240245 representing NM_001282948. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
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ATACACGAGGATGAAGTAGAGGATATGGAAGAAAAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

**Protein Sequence:** >Peptide sequence encoded by RG240245  
 Blue=ORF Red=Cloning site Green=Tag(s)

MQGPYSLNGYRVRVYRQDSATQWFTGII THHDLFTRTMI VMNDQVLEPQNVDPSPMVQMTFLDDVVHSL  
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 SGETVVLKLDWPSGEDFKTMMARYEDLLKSLPL PEYCNPEGKFN LASHLPGFVVRPDLGPRLCSAYG  
 VVAAKDHDIGTTNLHIEVSDVVNII VYVGIAGNGIL SKAGILKKFEEDLDDILRKRKLDSSIEPGAL  
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 IHEDEVEDMEEN

**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
**MGYGFYHFGTYPSGYENPFLHAINNGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE**  
**SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA**  
**FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV**

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001282948

**ORF Size:** 7074 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\\_001282948.1](#), [NP\\_001269877.1](#)

**RefSeq Size:** 8675 bp

**RefSeq ORF:** 7077 bp

**Locus ID:** 221037

**UniProt ID:** [Q15652](#)

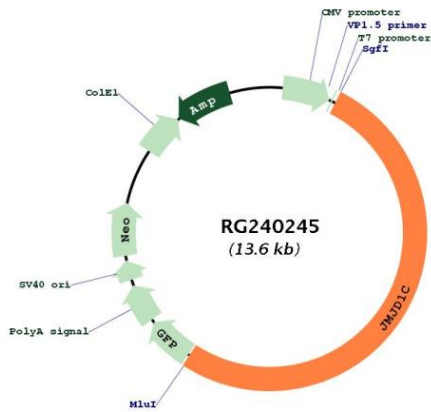
**Cytogenetics:** 10q21.3

**Protein Families:** Druggable Genome

**MW:** 263.6 kDa

**Gene Summary:**

The protein encoded by this gene interacts with thyroid hormone receptors and contains a jumonji domain. It is a candidate histone demethylase and is thought to be a coactivator for key transcription factors. It plays a role in the DNA-damage response pathway by demethylating the mediator of DNA damage checkpoint 1 (MDC1) protein, and is required for the survival of acute myeloid leukemia. Mutations in this gene are associated with Rett syndrome and intellectual disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

**Product images:**


Circular map for RG240245