

## Product datasheet for RC214878

### JMJD1C (NM\_032776) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JMJD1C (NM_032776) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	JMJD1C
Synonyms:	KDM3C; TRIP-8; TRIP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214878 representing NM_032776 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTAGAGACGCGGGCAGAGCTGGTGGGTAAAGCGGTTCTGTGTGTGGCGGTGGCGACGAGGCAC  
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**Protein Sequence:** >RC214878 representing NM\_032776  
 Red=Cloning site Green=Tags(s)

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 KEMVRALKIHEDEVEDMEEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8119\\_a09.zip](https://cdn.origene.com/chromatograms/mk8119_a09.zip)  
**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_032776

**ORF Size:** 7620 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:**

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:** [NM\\_032776.2](#), [NP\\_116165.1](#)

**RefSeq Size:** 8786 bp

**RefSeq ORF:** 7623 bp

**Locus ID:** 221037

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

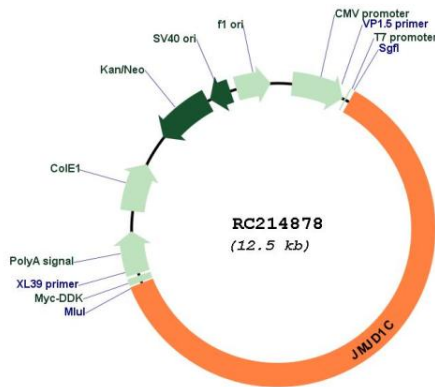
**Cytogenetics:** 10q21.3

**Protein Families:** Druggable Genome

**MW:** 285 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 RC214878