

Product datasheet for **SC338139**

JMJD1C (NM_001282948) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JMJD1C (NM_001282948) Human Untagged Clone
Tag:	Tag Free
Symbol:	JMJD1C
Synonyms:	KDM3C; TRIP-8; TRIP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282948, the custom clone sequence may differ by one or more nucleotides

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TGTATCATGCAGTCAAAGAAATGGTGAGAGCCTTGAAGATACACGAGGATGAAGTAGAGGATATGGAAGA
AAATTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001282948
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_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

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]

Transcript Variant: This variant (3) contains alternate 5' exon structure, and it thus differs in the 5' UTR and initiates translation from a downstream in-frame start codon, compared to variant 1. The encoded isoform (c, also known as s-JMJD1C) is shorter at the N-terminus, compared to isoform a. Both variants 3 and 4 encode isoform c.