

## Product datasheet for **SC103759**

### JMJD1C (AK027280) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JMJD1C (AK027280) Human Untagged Clone
Tag:	Tag Free
Symbol:	JMJD1C
Synonyms:	KDM3C; TRIP-8; TRIP8
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AK027280, the custom clone sequence may differ by one or more nucleotides

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TTGCGGGGAGGGCCCGAGGTCGCTGTGTCCGGGGCAGAGCGGCCGGTTCGTCCCAGTCTGCGCTTTTC
GGGTCCGCTGCTGTGTCCCGGTCCGCTCTCCTCAGCATGAGCGGCCGGTAGGAGTGAGGTTTCATCGGTT
CCCTCGCACTGGAGGAGGCAGCGGCCGCTTCGGCAGCGACAGCTATGGCGGTAGAGACGCGGGCAGAGCT
GGTGGGTAAAGCGTTCCTGTGTGTGGCGGTCGGCGACGAGGCACGTTCCGAGCGCTGGGAGAGCGGACGC
GGCTGGCGAAGCTGGCGAGCGGGGTCAATCCGAGCCGTGTACACAGGGACAGCCGAATCCGGACCTGG
CGGTGTATGTGGAATTTGATGATCTTGAATGGGATAAACGAGAGTGGGTTAAAGTTTATGAAGATTTTTC
AACTTTCTTGGTGAATACCACTTAATCTGGGCCAAAAGGAATGACCCTAGCCAGACTCAGGGATCAAAG
AGCAAACAGATTCACTGGCCTGCATTGACTTTCAAACCTCTGGTTGAAAGAAATATACCCAGTTCAGTCA
CTGCAGTAGAATTCCTTGTAGATAAGCAACTGGATTTTTAACTGAAGATAGTGCCTTTCAGCCCTACCA
GGACGACATAGACAGCCTAAACCCAGTTCAGGGACAACCCGCAGCTTCATGAGGAAGTAAAGTCTGG
GTAAGGAACAAAAGGTTCAAGGATTTTTATGCAAGTCCTTATTCCTTAAATGGATACAGAGTGAGAG
TATATAGACAAGACTCTGCCACCCAGTGGTTTACTGGCATAATTACTCATCATGATCTCTCACCCGCAC
CATGATCGTTATGAATGATCAGTACTAGAACCACAGAATGTCGATCCTTCTATGGTTCAAATGACCTTT
CTAGATGATGTTGTTCACTCTTTGTTAAAAGGTGAAAATATTGGCATTACATCAGCAGCAGGTCTCGTG
CCAATCAAACGTCAACGCTGTTACAGCCATTATACACGTGCCAAGCAAATAGTCCCAGACCAGCAAT
GAACTCCCAAGCTGCTGTACAAAACAGAATACACACCAGCAACAGCAACAAAGAAGTATCCGTCCGAAT
AAGAGGAAGGGCTCAGATAGCAGTATACCAGATGAAGAGAAGTGAAGGAGGAAAAATATGATTATATAT
CACGAGGAGAAAAATCCTAAAGGTAAAAACAAACTTGTGAATAAAAAGAAGGAAACCTGAGGAGGATGA
AAAGAACTAAATATGAAAAGACTTCGAACTGACAATGTTTCAGACTTTTCTGAGAGCAGTGACTCAGAA
AATTCAAATAAGAGAATAATAGATAATTCCTCAGAACAGAAGCCAGAGAATGAATTGAAAAATAAAAAATA
CTTCAAAAATAAATGGAGAAGAAGGAAAACCCATAATAATGAGAAGGCAGGAGAAGAGACCTT
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AK027280 unedited TGTATACGACTCTATAGGGCGGCCGATTTCGGCACGAGGGCGGTGGCGCGGCTGGGC TGCTCGGGGTCTTCGACGGCCGCGTTGGGTTTTGTTTCAGTTTTCTTGTGTGGCGCTGC AGCACAAGGCTGCGAATCTGGGAGTCAAAGGAGTGTTCGCGGGAGGGCCCGAGGTCGC TGTGTCCGGGGCAGAGCGCCGTTTCGTCGCGAGTCTGCGCTCTTTCGGGTCCGCTGCTG TGTCCCGGTCCGCTCTCCTCAGCATGAGCGGCCGTTAGGAGTGAGGTTTCATCGGTTCCC TCGCACTGGAGGAGGACGCGCCGCTTCGGCAGCGACAGCTATGGCGGTAGAGACGCGGG CAGAGCTGGTGGTAAGCGGTTCTGTGTGGCGGTCGGCGACGAGGCAGTTCGGAGC GCTGGGAGAGCGGACGCGCTGGCGAAGCTGGCGAGCGGGGTATCCGAGCCGTGTAC ACAGGGACAGCCGAATCCGGACCTGGCGGTGTATGTGGAATTTGATGATCTTGAATGGG ATAAACGAGAGTGGGTTAAAGTTTATGAAGATTTTCACTTTCTTGGTGAATACCACT TAATCTGGGCCAAAAGGAATGACCCTAGCCAGACTCAGGGATCAAAGAGCAAACAGATTC AGTGGCCTGCATTGACTNTCAAACCTCTGGTTGAAAGAAATATACCCAGTTCAGTCACTG CAGTAGAATTCCTGTAGATAAGCAACTGGATTTTTTAAGTGAAGATAGTGCCTTTCAGC CCTACCAGGTCTTATTCTTTAATGGATACAGAGTGAGAGTATATAGACCAGACTCTGC CACCCAGTGGTTACTGGGCATANTACTCATCATGATCTCTTACC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK027280
<b>Insert Size:</b>	6000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">AK027280.1</a>
<b>RefSeq Size:</b>	1464 bp
<b>RefSeq ORF:</b>	1464 bp
<b>Locus ID:</b>	221037
<b>Cytogenetics:</b>	10q21.3
<b>Protein Families:</b>	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]