

## Product datasheet for **SC323992**

### KDM5C (NM\_004187) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KDM5C (NM_004187) Human Untagged Clone
Tag:	Tag Free
Symbol:	KDM5C
Synonyms:	DXS1272E; JARID1C; MRX13; MRXJ; MRXSCJ; MRXSJ; SMCX; XE169
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_004187.2  
GGCCGCGCGTGGGAGGTAAGCTGTGGTGGCGAAGGCTGCGGTAGTGGGGAGGCAACCA  
CACAGTTTGAAGAAACGGAGCGGAGCAGCAAGAGGCGGTAGCAGTAGAGTCAGCCTGAGAC  
TCTCAGAGCACGACGGCCACACGCCCCCTTAGGCCCTCGGCGGGCGGCGGCTGCCCGCT  
TAGGGCCTAGCCTCCGAGCATTGCCTCGGCTTCAAACAGCGGCGGCCATGAGTCTTA  
AGGGCGGTCCAAGCTCCGATCCCTGGCCAGACCTCGGGCCACCATGGAGCCGGGT  
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AGATCCGCCACCCGCGGACTGGCAGCCACCCTTGTGTGGAAGTGACAACCTCAGGT  
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CCAAGATGACCATGAGGCTACGGAGGAACACAGCAATGCCAGTTTATTGAGTCATATG  
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GGAGGCTGGTAAATAGCATTGAGGAAGATGTGACTGTTGAGTATGGAGCTGACATCCATT  
 CCAAAGAATTTGGCAGCGGTTTCCCTGTCAAGTACAGTAAACGGCACCTAACCCCGAAG  
 AGGAGGAGTATGCTACCAGTGGTTGGAACCTAAATGTGATGCCGGTGTGGAACAGTCTG  
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 TGGTCTTCTCAGCCTTTTGTGGCATATTGAGGATCACTGGAGTTACTCCATTAACCTACC  
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GTGGGGAGGGCGATGACCCAGCCCGAGAGGAGCTAGAGCCAAAGAGGGTACGGAGCTCAG
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GGCTGCATCTGCCCTGCCACAGCAGCCGCCTCAGCAACAGTTGTGACAGTGGCTGAGCC
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TGAGTCCCTTGACTTTTGTATTCTGACTCCAAGGTATTGTTACACCTCAGCTCCTGGGG
GCCGCCCTGGAGTCTTCCCTCCTGGTAGCCTCTAACCAGCATTCCCAGACACCTGAG
GCAGATAGATGGATGGGCTGGTGGGCAGGGGGTGGTGGGGCTGGGCCATCACCATTCC
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TCACATAGCCGTGCTCACAGTTTTTTATTTAAAGGAATTTGGCTGGGGAGCTGAACAGG
GCTCCCTGTGATCTGAAGAAAGCTTTTGGTGTGTCTCACAACCACCTCAGTCTCCC
TCCTGTCTCCCTGTCTCCTTTCCTCCTCCTGGGTTTATGTTAATAAAAGAAGATT
GTTGGTGTGAATTAATTTGTTCAAAAAAAAAAAAAA
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- Restriction Sites:** ECoRI-NOT
- ACCN:** NM\_004187
- OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.
- 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_004187.2](#), [NP\\_004178.2](#)

RefSeq Size:	6727 bp
RefSeq ORF:	4683 bp
Locus ID:	8242
UniProt ID:	<a href="#">P41229</a>
Cytogenetics:	Xp11.22
Domains:	ARID, PHD, JmjC, JmjN, zf-C5HC2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>This gene is a member of the SMCY homolog family and encodes a protein with one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers. The DNA-binding motifs suggest this protein is involved in the regulation of transcription and chromatin remodeling. Mutations in this gene have been associated with X-linked cognitive disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>