

Product datasheet for **RC208504**

KDM5C (NM_004187) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM5C (NM_004187) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KDM5C
Synonyms:	DXS1272E; JARID1C; MRX13; MRXJ; MRXSCJ; MRXSJ; SMCX; XE169
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208504 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGGGTCCGACGATTTCTACCGCCACCGGAGTGCCCGGTGTTTCGAGCCTAGCTGGGCCGAGT
TCCGAGACCTCTTGGCTACATCGCGAAAATCAGGCCATCGCAGAGAAATCGGGCATTGCAAGATCCG
CCCACCCGCGGACTGGCAGCCACCCTTTGCTGTGGAAGTGGACAACCTCAGGTTTACCCCCGAATCCAG
AGGCTGAATGAGCTAGAGGCCAGACGAGAGTGAACCTGAACCTTGGACCAGATTGCCAAATCTGGG
AAATCCAGGGCTCCTCCTTAAAGATTCCAATGTAGAACGGCGGATCTTGGACCTCTACAGTCTCAGCAA
AATTGTGGTGGAGGAAGGTGTTATGAAGCTATCTGCAAGGACCGTCGGTGGGCTCGGGTAGCCAGCGC
CTCAACTATCCACCAGGCAAAAATATTGGCTCCTTGTACGCTCCCACTACGAACGCATTGTTTATCCCT
ATGAAATGTACAGTCTGGAGCCAACCTTGTGTGTAACACACGTCACATTTGATAATGAGGAGAAGGACAA
GGAATACAAACCCACAGCATCCCCCTACGACAGTCTGTGCAGCCTTCCAAGTTCAACAGCTATGGCCGG
CGGGCCAAGAGACTGCAGCCTGATCCGGAACCCACAGAGGAAGACATTGAGAAGAATCCAGAGCTGAAAA
AGCTACAGATCTATGGGGCAGGCCCAAGATGATGGGCCTGGGCCTCATGGCCAAAGACAAGACTCTGCG
GAAGAAAGATAAAGAGGGGCCTGAGTGTCCCCCAGTAGTGGTGAAGGAGGAGTTAGGTGGGGATGTG
AAGGTGGAGTCAACATCGCCTAAGACCTTCTGGAGAGCAAGGAGGAGCTGAGTACAGCCAGAACCTC
GCACCAAGATGACCATGAGGCTACGGAGGAACACAGCAATGCCAGTTTATTGAGTCATATGCTGCCC
GATGTGTTCTCGAGGGGATGAGGATGACAAGCTCCTGCTGTGTGATGGCTGTGATGACAACCTACCACATC
TTCTGCCTGCTGCCTCCTCTGCCTGAGATCCCCAAGGGTGTCTGGCGGTGCCCAAAGTGTGTGATGGCGG
AGTGTAAAGCGGCCCCAGAAGCCTTTGGCTTTGAGCAGGCTACCCGGAATACACTCTGCAGAGCTTTGG
CGAGATGGCCGACTCCTTAAAGCTGACTACTTCAACATGCCCGTCATATGGTGCCACAGAACTGTG
GAGAAGGAGTTCTGGAGGCTGGTAAATAGCATTGAGGAAGATGTGACTGTTGAGTATGGAGCTGACATCC
ATTCCAAAGAATTTGGCAGCGGTTTCCCTGTCACTGACAGTAAACGGCACCTAACCCCGAAGAGGAGGA
GTATGCTACCAGTGGTTGGAACCTAAATGTGATGCCGGTGTGGAACAGTCTGTACTGTGCCACATCAAT



[View online >](#)

GCAGATATCTCTGGCATGAAGGTGCCCTGGCTCTACGTGGGCATGGTCTTCTCAGCCTTTTGTGGCATA
 TTGAGGATCACTGGAGTTACTCCATTAACCTACCTCCACTGGGGTGAGCCGAAGACCTGGTATGGGGTGCC
 CTCACTTGCAGCAGAACATTTGGAAGAAGTGATGAAGAAGCTGACACCTGAACTATTTGATAGCCAGCCT
 GACCTCTGCACCAACTTGTACCCTCATGAATCCCAACACCCTCATGTCCCATGGTGTGCCAGTTGTCC
 GCACAAACCAGTGTGCAGGAGAGTTTGTATCACCTTCCCCGTGCTTACCACAGCGGCTCAACCAAGG
 CTACAACCTTGGCGAGGCTGTCAACTTTTGCACCTGCTGACTGGTTGCCTGCTGGCGCCAGTGCATTGAG
 CACTACCGCCGGCTCCGAGATACTGCGTCTTCTCCCATGAGGAGCTTATCTGCAAGATGGCTGCCTGCC
 CAGAGAAGCTAGACCTGAACCTGGCGGCAGCTGTGCATAAGGAGATGTTATCATGGTGAAGAAGAGCG
 GCGTCTACGAAAGGCCCTGCTGGAGAAGGGTATCACAGAGGCTGAGCGAGAGGCTTTTCGAGCTGCTCCCA
 GATGATGAGCGCCAGTGTATCAAGTGAAGACTACGTGTTTCTGTGAGCCCTGGCCTGCTACGACTGCC
 CAGACGGCCTTGTCTGCCTTTCCACATCAATGATCTCTGCAAGTGTCCAGTAGCCGGCAGTACCTGCG
 GTATCGGTATACCTTGGATGAGCTTCTGCCATGTGCATAAGCTGAAGGTTTCGGCTGAGTCTTTGAC
 ACCTGGGCCAACAAAGTGCAGTGGCCCTGGAGGTGGAGGATGGCGGAAGCGCAGCCTGAAGAAGTGA
 GGGCACTAGAGTCTGAAGCCCGTGAAGCGAGGTTTCTAATAGTGAAGTGTGCAGCAACTAAAGAAGT
 CCTGAGTGAAGCAGAGGCTTGCCTGCTCCGAGCTCTGGGACTGGTCAGCGCCAGGAAGTGGCCCCAC
 AGGGTGGCTGGTCTACAGATGACCTGACTGAGCTCCGGGCTTTCTGGACCAGATGAACAACTGCCTT
 GCGCCATGCACCAGATTGGGGATGTCAAGGGTGTCTGGAACAGGTGGAGGCTACCAGGCTGAGGCTCG
 TGAGGCCCTGGCCTCACTGCCCTCCAGTCCAGGGCTACTGCAGTCCCTGTTGGAGAGGGGGCGCAGCTG
 GGGGTGGAGGTGCCTGAGGCCAGCAGCTCCAGCGCAGGTGGAACAGGCGCGATGGCTGGATGAGGTGA
 AACGCACACTGGCCCCCTCAGCCCGAAGGGGCACCTTGGCTGTATGCGAGGACTGTTGGTGCGGGTGC
 CAGTGTAGCCCCTAGCCCTGCTGTGGATAAAGCCAGGCCAGCTGCAGGAAGTGTGACATTGCTGAA
 CGCTGGGAGGAGAAAGCCACCTCTGCCTGGAGGCCAGGCAAGCATCCACCAGCCACTTGAAGGCCA
 TAATCCGTGAAGCGGAAAACATCCCTGTTCACTGCCAACATCCAGGCTCTCAAGGAGGCTTGTCTAA
 GGCCCGGCTGGATTGCTGATGTTGATGAGATCCAAAATGGTGACCACTACCCCTGCCTGGATGACTTG
 GAGGGCTAGTAGCTGTGGGCCGGACCTACCTGTGGGGTGGAGGAGCTGAGACAGCTAGAGCTACAGG
 TACTGACAGCGCACTCCTGGAGGAGAAGGCTCCAAGACCTTCTCAAGAAAAATCTTGTACACGCT
 GCTGGAGGTTCTCTGCCATGTGCAGATGCCGGCTCAGACAGCACCAAGCGCAGCCGGTGGATGGAGAAG
 GAGCTGGGGTTGTACAACTGACACAGAGCTGCTGGGGTGTCTGCGCAGGACCTCAGGGACCCAGGCT
 CTGTGATCGTGCCTTCAAGGAGGGGAACAGAAGGAGAAGGAGGATCCTGCAGCTGCGTGCACCAA
 TTCGCCAAGCCAGTCCACTGGCATCATCGAGCACGGCCTCCTCTACAACCTCTATCTGTGTGTGGG
 CAGGTGCTGGCTGGGGCGGAGCTCTGCAGTGTGACCTGTGTGAGACTGTTCCATGGCGGTGTGTGT
 CAGTGCCTCGCCTCCTCAGCTCTCCGAGGCCAATCCCACCTCATCCCCACTGCTGGCCTGGTGGGAATG
 GGACACCAAATCCTGTGTCCACTGTGTATGCGCTCAAGGCGCCCGCCTGGAGACCATCCTGGCACTG
 CTGGTAGCCCTGCAGAGACTGCCTGTGCGGCTGCCCGAGGGCGAGGCCCTGCAGTGCCTCACAGAGAGGG
 CCATCAGCTGGCAAGGCCGCGCCAGGAGGCTCTGGCCTCTGAAGATGTGACTGCTTTTGGGACGGCT
 GGCTGAGCTCCGCCAACGGCTACAGGCTGAACCTAGACCTGAGGAGCCTCCTAACCTGCAGCCCCCT
 GCTTCTGACCCCTCAGAGAGGGCAGTGGCAAGGATATGCCTAAGGTCCAGGGCTTACTGGAGAATGGAG
 ACAGTGTGACCACTCTGAGAAGGTAGCCCCGAGGAGGGCTCAGGTAAGAGAGATCTGGAGCTGCTGTC
 CTCGCTGTTGCCACAGTTGACTGGCCCTGTGTTGGAAGTGCCTGAGGCAACCCGGCCCCCTTGGAGGAG
 CTATGATGGAGGGGACCTGCTCGAGGTGACCTGGATGAGAACCACAGCATATGGCAGCTGCTGCAGG
 CTGGACAGCCCCAGACCTGGAGAGGATCCGCACACTTCTGGAGCTGGAGAAGGCAGAGGCTCACGGGAG
 TCGGGCTCGGGCCGGGCCCTGGAGAGGCGCGCGCGGAAGGTGGATCGGGTGGGGAGGGCGATGAC
 CCAGCCCCGAGAGGAGCTAGAGCCAAAGAGGGTACGGAGCTCAGGGCCAGAGGCTGAGGAGGTCCAGGAGG
 AGGAAGAGCTGGAGGAGGAGACTGGGGTGAAGGCCCTGCACCCATCCCCACTGGCAGCCCCAG
 CACCCAGGAGAACCAGAAATGGCTTGAACCGCGGAAGGGACCACTTCAAGCCCCCTGGCCCCCTTCTCC
 ACTCTGACTCCCCGGCTGCATCTGCCCTGCCACAGCAGCGCCTCAGCAACAGTTG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

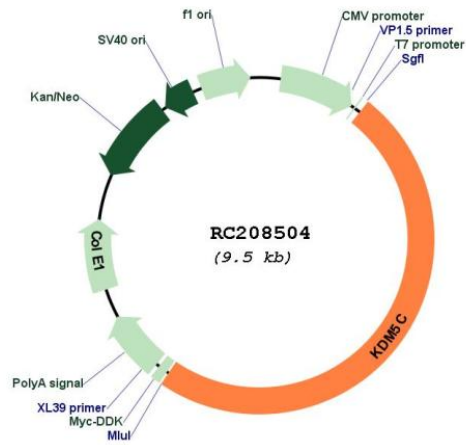
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004187

ORF Size: 717 bp

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 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 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:	<ol style="list-style-type: none"> 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_004187.5
RefSeq Size:	6863 bp
RefSeq ORF:	4683 bp
Locus ID:	8242
UniProt ID:	P41229
Cytogenetics:	Xp11.22
Domains:	ARID, PHD, JmjC, JmjN, zf-C5HC2
Protein Families:	Druggable Genome, Transcription Factors
MW:	175.6 kDa
Gene Summary:	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]