

## Product datasheet for **RG240178**

### KDM5C (NM\_001282622) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KDM5C (NM_001282622) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDM5C
Synonyms:	DXS1272E; JARID1C; MRX13; MRXJ; MRXSCJ; MRXSJ; SMCX; XE169
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240178 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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CACCCAGGAGAACCAGAAATGGCTTGAACCGCGGAAGGGACCACTTCAAGCCCCCTGGCCCTTTCTCC  
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

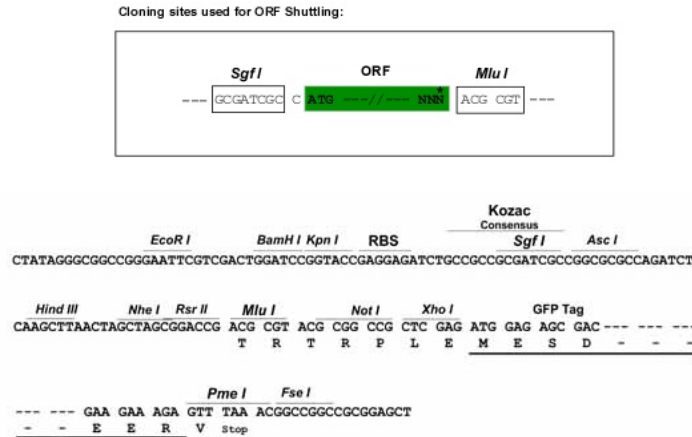
Protein Sequence: >RG240178 protein sequence  
 Red=Cloning site Green=Tags(s)

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RAKRLQDPPEPTTEEDIEKNPELKKLQIYGAGPKMMGLGLMAKDKTLRKKDKEGPECPPTVVVKEELGGDV
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FCLLPPLPEIPKGVWRCPKCVMAECKRPPAEFGFEQATREYTLQSFGEADSFKADYFNMPVHMVPTTEL
VEKEFWRLVNSIEEDVTVEYGADIIHSEKFGSGFPVSDSKRHLTPEEEYATSGWNLNVMPVLEQSVLCHIN
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DLLHQLVTLMPNNTLM SHGVPVVRTNQ CAGEFVITFP RAYHSGFNQGYNFAEAVNFCTADWLPAGRQCIE
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TWANKVRVALEVEDGRKRSLEELRALESEARERRFPNSELLQQLKNCLSEAEACVSRALGLVSGQEAGPH
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RWEEKAHLCLEARQKHPPATLEAIIREAENIPVHL PNIQALKEALAKARAWIADVDEIQNGDHYPCLDDL
EGLVAVGRDLPVGLLEELRQLELQVLTAHSWREKASKTFLKKN SCYTLLEVLCPCADAGSDTKRSRWMEK
ELGLYKSDTELLGLSAQDLRDPGSVIVAFKEGEQKEKEGILQLRRTNSAKPSPLASSTASSTTSICVCG
QVLAGAGALQCDLQDWFHGRCSVPRLLSSPRNP TSSPLLAWEWDTKFLCPLCMRSRRRPLETILAL
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TLTPRLHLPQPQPPQQQL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001282622

ORF Size: 4677 bp

<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_001282622.3</a>
<b>RefSeq Size:</b>	6644 bp
<b>RefSeq ORF:</b>	4680 bp
<b>Locus ID:</b>	8242
<b>UniProt ID:</b>	<a href="#">P41229</a>
<b>Cytogenetics:</b>	Xp11.22
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	175.6 kDa
<b>Gene Summary:</b>	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]