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Product datasheet for RG228679

KDM5C (NM_001146702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM5C (NM_001146702) 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:	>RG228679 representing NM_001146702 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGCCGGGGTCCGACGATTTCCTACCGCCACCGGAGTGCCCGGTGTTCGAGCCTAGCTGGGCCGAGT TCCGAGACCCTCTTGGCTACATCGCGAAAATCAGGCCCATCGCAGAGAAATCGGGCATTTGCAAGATCCG CCCACCCGCGATTGTGGTGGAGGAAGGTGGTTATGAAGCTATCTGCAAGGACCGTCGGTGGGCTCGGGTA GCCCAGCGCCTCAACTATCCACCAGGCAAAAATATTGGCTCCTTGCTACGCTCCCACTACGAACGCATTG TTTATCCCTATGAAATGTACCAGTCTGGAGCCAACCTTGTGCAGTGTAACACACGTCCATTTGATAATGA GGAGAAGGACAAGGAATACAAACCCCACAGCATCCCCCTACGACAGTCTGTGCAGCCTTCCAAGTTCAAC AGCTATGGCCGGCGGGCCAAGAGACTGCAGCCTGATCCGGAACCCACAGAGGAAGACATTGAGAAGAATC CAGAGCTGAAAAAGCTACAGATCTATGGGGCAGGCCCCAAGATGATGGGCCTGGGCCTCATGGCCAAAGA CAAGACTCTGCGGAAGAAAGATAAGGAGGGGCCTGAGTGTCCCCCCACAGTAGTGGTGAAGGAGGAGTTA GGTGGGGATGTGAAGGTGGAGTCAACATCGCCTAAGACCTTCCTGGAGAGCAAGGAGGAGCTGAGTCACA GCCCAGAACCCTGCACCAAGATGACCATGAGGCTACGGAGGAACCACAGCAATGCCCAGTTTATTGAGTC ATATGTCTGCCGGATGTGTTCTCGAGGGGATGAGGATGACAAGCTCCTGCTGTGTGATGGCTGTGATGAC AACTACCACATCTTCTGCCTGCTGCCTCCTCTGCCTGAGATCCCCAAGGGTGTCTGGCGGTGCCCAAAGT GTGTCATGGCGGAGTGTAAGCGGCCCCCAGAAGCCTTTGGCTTTGAGCAGGCTACCCGGGAATACACTCT GCAGAGCTTTGGCGAGATGGCCGACTCCTTTAAAGCTGACTACTTCAACATGCCCGTGCATATGGTGCCC ACAGAACTTGTGGAGAAGGAGTTCTGGAGGCTGGTAAATAGCATTGAGGAAGATGTGACTGTTGAGTATG GAGCTGACATCCATTCCAAAGAATTTGGCAGCGGTTTCCCTGTCAGTGACAGTAAACGGCACCTAACCCC CGAAGAGGAGGAGTATGCTACCAGTGGTTGGAACCTAAATGTGATGCCGGTGTTGGAACAGTCTGTACTG TGCCACATCAATGCAGATATCTCTGGCATGAAGGTGCCCTGGCTCTACGTGGGCATGGTCTTCTCAGCCT TTTGCTGGCATATTGAGGATCACTGGAGTTACTCCATTAACTACCTCCACTGGGGTGAGCCGAAGACCTG GTATGGGGTGCCCTCACTTGCAGCAGAACATTTGGAAGAAGTGATGAAGAAGCTGACACCTGAACTATTT

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ACTTTTGTATTCTGACTCCAAGGTATTGTTCAGACCTCAGCTCCTGGGGGCCGGCCCCTGGAGTCTTCCC
TCCCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228679 representing NM_001146702
Red=Cloning site Green=Tags(s)

MEPGSDDFLPPPECPVFEPSWAEFRDPLGYIAKIRPIAEKSGICKIRPPAIVVEEGGYEAICKDRRWARV
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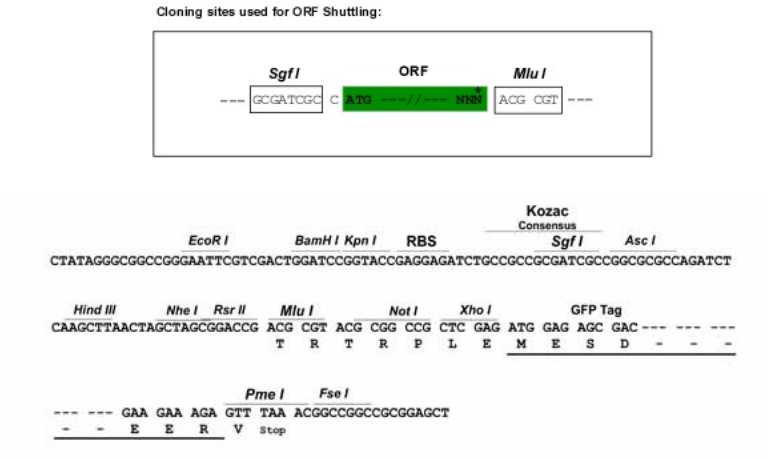
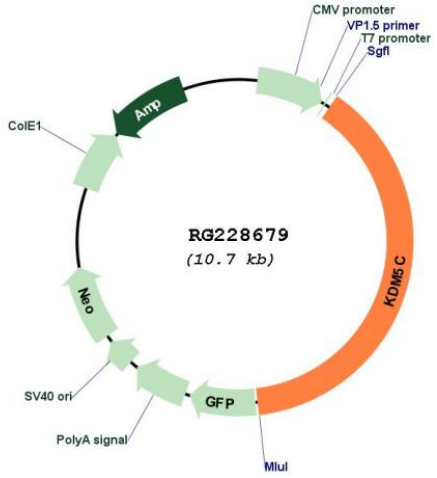
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001146702
ORF Size:	4137 bp
OTI Disclaimer:	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:	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_001146702.2
RefSeq Size:	6097 bp
RefSeq ORF:	4140 bp
Locus ID:	8242
UniProt ID:	P41229

Cytogenetics:	Xp11.22
Protein Families:	Druggable Genome, Transcription Factors
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]