OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG239277

MCAK (KIF2C) (NM_001297656) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCAK (KIF2C) (NM_001297656) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF2C
Synonyms:	CT139; KNSL6; MCAK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG239277 representing NM_001297656.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTGATTTTGATGATGTGGCTGCAATAAACCCAGAACTCTTACAGCTTCTTCCCTTACATCCGAAG
GACAATCTGCCCTTGCAGGAAAATGTAACAATCCAGAAACAAAAACGGAGATCCGTCAACTCCAAAATT
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GCTCAGGAGAATGACATGGAGGTGGAGCTGCCTGCAGCTGCAAACTCCCGCAAGCAGTTTTCAGTTCCT
CCTGCCCCCACTAGGCCTTCCTGCCCTGCAGTGGCTGAAATACCATTGAGGATGGTCAGCGAGGAGATG
GAAGAGCAAGTCCATTCCATCCGAGGCAGCTCTTCTGCAAACCCTGTGAACTCAGTTCGGAGGAAATCA
TGTCTTGTGAAGGAAGTGGAAAAAATGAAGAACAAGCGAGAAGAGAAGAAGGCCCAGAACTCTGAAATG
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CCGTTCCGTGAGAGCAAGCTGACACAGGTGCTGAGGGACTCCTTCATTGGGGAGAACTCTAGGACTTGC
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CTGGAGACCTTTGTGAACAAAGCGGAATCTGCTCTGGCCCAGCAAGCCAAGCATTTCTCAGCCCTGCGA
GATGTCATCAAGGCCTTGCGCCTGGCCATGCAGCTGGAAGAGCAGGCTAGCAGACAAATAAGCAGCAAG
AAACGGCCCCAG
AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG239277
Blue=ORF Red=Cloning site Green=Tag(s)

MIDFDDVAAINPELLQLLPLHPKDNLPLQENVTIQKQKRRSVNSKIPAPKESLRSRSTRMSTVSELRIT
AQENDMEVELPAAANSRKQFSVPPAPTRPSCPAVAEIPLRMVSEEMEEQVHSIRGSSSANPVNSVRRKS
CLVKEVEKMKNKREEKKAQNSEMRMKRAQEYDSSFPNWEFARMIKEFRATLECHPLTMTDPIEEHRICV
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PLVQTIFEGGKATCFAYGQTGSGKTHTMGGDLSGKAQNASKGIYAMASRDVFLLKNQPCYRKLGLEVYV
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RSHACFQIILRAKGRMHGKFSLVDLAGNERGADTSSADRQTRMEGAEINKSLLALKECIRALGQNKAHT
PFRESKLTQVLRDSFIGENSRTCMIATISPGISSCEYTLNTLRYADRVKELSPHSGPSGEQLIQMETEE
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LETFVNKAESALAQQAKHFSALRDVIKALRLAMQLEEQASRQISSKKRPQ
SGPTRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLL
SHVMGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGF
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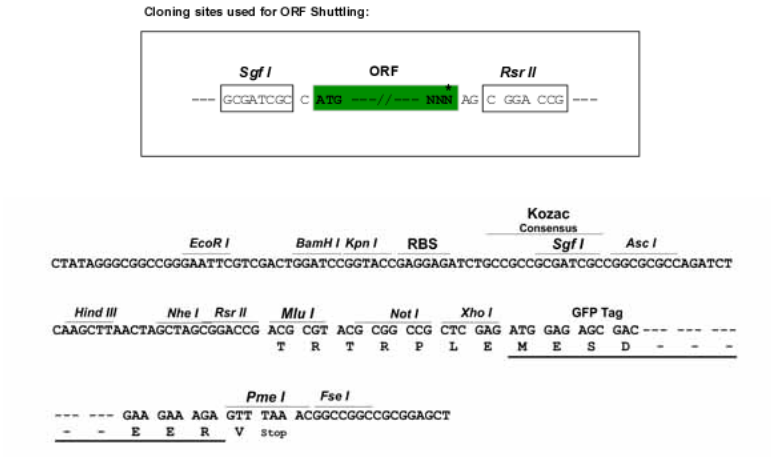
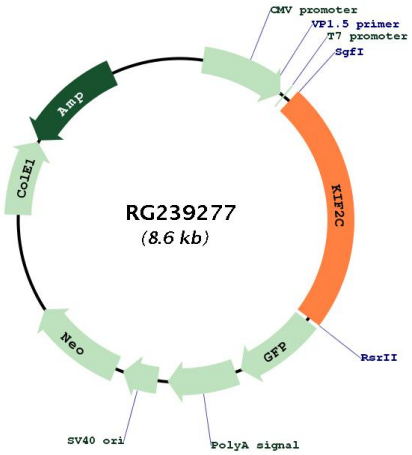
Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001297656
ORF Size:	2013 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).
RefSeq:	NM_001297656.2
RefSeq Size:	3014 bp
RefSeq ORF:	2016 bp
Locus ID:	11004
UniProt ID:	Q99661
Cytogenetics:	1p34.1
Protein Families:	Druggable Genome

MW:	76 kDa
Gene Summary:	This gene encodes a kinesin-like protein that functions as a microtubule-dependent molecular motor. The encoded protein can depolymerize microtubules at the plus end, thereby promoting mitotic chromosome segregation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]