

Product datasheet for **RC213021**

MINDY2 (NM_001040450) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MINDY2 (NM_001040450) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MINDY2
Synonyms:	FAM63B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC213021 representing NM_001040450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAGCAGCCCCGAGAGCCTGCAGCCGCTAGAACACGGGTGGCGGCCGGCCAGCGTCAGGGACAG
 GTTCTTCGAGGAAGGGCTACAGGAGACCAGGCTCGCCGCTGGTGATGGTCCTGGGGTATGGCGGCGGA
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 GTCCTGCTGCCGCCGAGGCGCTCTGAGAGGGCAGTACAAGGTGACCGCCTCCCGGAGACAGCGTGCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213021 representing NM_001040450
 Red=Cloning site Green=Tags(s)

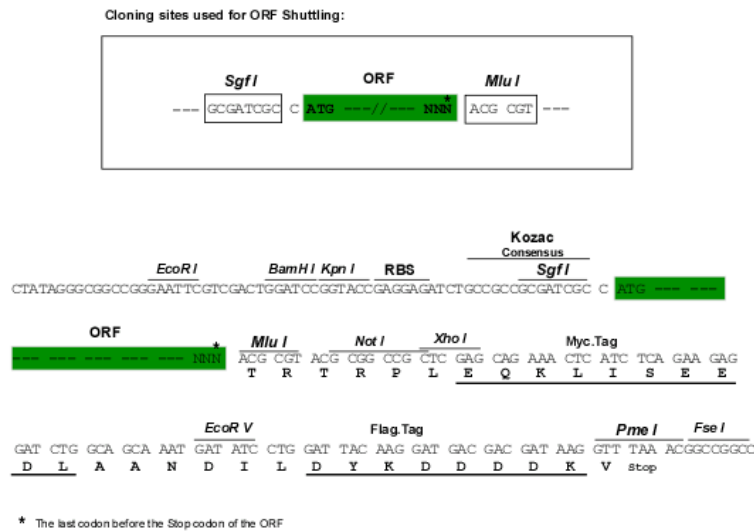
MESSPESLQPLEHVAAGPASGTSSQEGLEQETRLAAGDGPVWAAETSGGNGLGAAAARRSLPDSASPA
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 YTPECIVFDLLDIPLYHGWLVDPQIDDIKAVGNCSYNQLVEKIIISCKQSDNSELYSEGFAEQFLNNTA
 TQLTYHGLCELSTVQEGELCVFFRNHFMSTMYKQQLYLLVTDQGFLEEKVWVWESLHNVGDGDNFCD
 SEFHLRPPSDPETVYKGGQDQIDQDYLMSLQQEQSQEINWEQIPEGISDLELAKKLQEEEDRRASQY
 YQEQEQAAAAAAASTQAQGGPAQASPSSGRQSGNSERKRKEPREKDKEKEKNSCVIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8070_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040450

ORF Size: 1863 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.

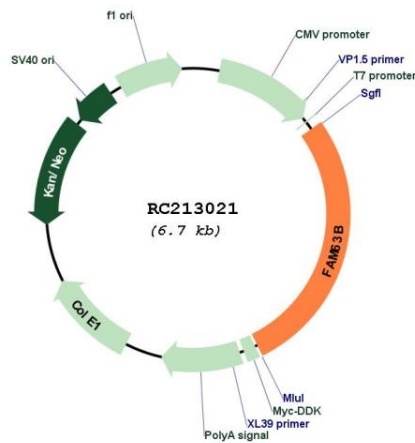
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001040450.3](#)

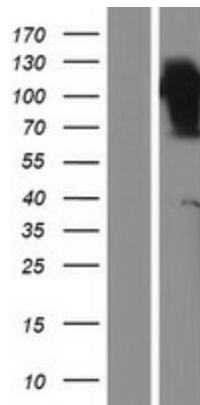
RefSeq Size: 5013 bp

RefSeq ORF:	1866 bp
Locus ID:	54629
UniProt ID:	Q8NBR6
Cytogenetics:	15q21.3-q22.1
Protein Families:	Druggable Genome
MW:	66.9 kDa
Gene Summary:	Hydrolase that can remove 'Lys-48'-linked conjugated ubiquitin from proteins (PubMed:27292798). Binds to polyubiquitin chains of different linkage types, including 'Lys-6', 'Lys-11', 'Lys-29', 'Lys-33', 'Lys-48' and 'Lys-63' (PubMed:28082312). May play a regulatory role at the level of protein turnover (PubMed:27292798).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC213021



Western blot validation of overexpression lysate (Cat# [LY421766]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213021 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).