

Product datasheet for **RG213021**

MINDY2 (NM_001040450) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MINDY2 (NM_001040450) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MINDY2
Synonyms:	FAM63B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213021 representing NM_001040450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGCAGCCCCGAGAGCCTGCAGCCGCTAGAACACGGGGTGGCGGCCGGCCAGCGTCAGGGACAG
 GTTCTTCGAGGAAGGGCTACAGGAGACCAGGCTCGCCGCTGGTATGGTCTGGGTATGGCGCGCGGA
 GACCAGCGCGGGGAATGGGCTGGGGCGCGCGCCGCCAGGAGGAGCCTCCCGACTCGGCTTCTCCCGCG
 GGCTCTCCTGAGGTTCCCGGACCCTGCAGCTCCTCCGCGGTTTGGACTTGAAGGACAGTGGTTTGGAGA
 GTCCTGCTGCCGCCGAGGCGCCTCTGAGAGGGCAGTACAAGGTGACCGCCTCCCGGAGACAGCCGTGGC
 CGGAGTGGGTATGAGTTGGGTACCGCCGAGACGCGGGAGCCCGCCGGATCTCGCCGGCACCTGCCAA
 GCAGAAGTACCGCCCGCGGCTCCGAAGAGCCAGCAGCGCCGGCGCCTCAGCAGCAGTGCAGCGACC
 CGAGCCCTCTGGGAATCTCCGAGCCTGGACTCTCTGGAGTCGTTCTTAACCTGCATTCTTTCCAG
 TAGCTGCGAGTTCATAGTGAGGAGGGAGCGGAGAACAGGGTCCCTGAGGAGGAGAGGGCGCGCGGTG
 TTGCCCGGGGCTTCTCTGTGCAAGGAGGAGGAGGGGGAGGAGACCGCTCAGGTGCTGGCGGCCCTCCA
 AGGAACGCTTCCCGGACAATCTGTGTATCACATCAAGTGGATCCAGTGAAGGAAGAGAACACACCCAT
 CATCACCCAGAATGAGAACGGACCCTGCCCTTGTGGCCATCCTCAATGTTTTGCTCCTGGCCTGGAAG
 GTGAAACTTCCACCGATGATGGAATCATAACTGCTGAGCAGCTGATGGAATATTTAGGAGATTACATGC
 TTGATGCAAAGCCAAAAGAAATTCAGAAATCAACGTTTAAATTATGAACAGAATATGAGTGATGCCAT
 GGCAATTTTGCACAACTACAGACAGCCCTGGATGTAATGTAAGATTCACTGGTGTTCGAGTGTGGAA
 TATACACCAGAATGCATAGTATTTGATCTTCTTGATATTCCTTTGACCATGGTGGTGTAGTAGACCCCT
 AGATTGATGACATTGTAAGAGCTGTGGTAAGTCACTGAGTACAACCAACTAGTGGAGAAGATCATCTTTG
 TAAACAGTCAGACAATAGTGAGCTGGTTAGTGAAGGCTTTGTAGCTGAGCAGTTTCTAAATAACACAGCC
 ACTCAACTGACATACCATGGATTATGTGAACAACTTCAACGGTTCAGGAAGGAGAACTTTGTGTGTCT
 TTCGGAATAATCATTTTTAGCACCATGACCAATACAAGGGTCACTGTATTTGTTGGTAACGGACCAGGG
 GTTTCTTACTGAAGAGAAAGTTGTTGGGAAAGCCTACACAACGTAGATGGTGTGGAAATTTCTGTGAC
 TCAGAATTTTATCTTCGACCTCCTCAGATCCTGAACTGTATACAAAGGACAACAAGATCAGATAGATC
 AGGATTATCTTATGGCATTATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGGAACAAATCCC
 GGAAGGAATCAGTATTTGGAAGTACAAAGAACTCCAAGAGGAAGAGGACAGACGGGCTTCTCAATAC
 TATCAGGAACAGGAACAAGCAGCAGCTGCTGCTGCTGCTTCTACACAGGCTCAGCAGGGCCAGCCAG
 CACAAGCCTCTCCATCAAGTGAAGACAATCTGGGAATAGTGAACGTAACCGGAAGGAACACGAGAAAA
 AGATAAAGAAAAAGAAAAGGAAAAAATAGCTGTGTTATTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213021 representing NM_001040450
 Red=Cloning site Green=Tags(s)

MESSPESLQPLEHGVAAGPASGTGSSQEGLQETRLAAGDGPVWAAETSGGNLGA AAAARRSLPDSASPA
 GSPEVPGPCSSSAGLDLKDSGLESPAAEAPLRGQYKVTASPETA VAVGVGHELGTAGDAGARPDLAGTCQ
 AELTAAGSEEPSSAGGLSSSCSDPSPPGESPLDSLESFNLHSPSSCFNSEEENRVEEEEEGA AV
 LPGAVPLCKEEEGEETAQVLAASKERFPGQSVYHIKWIQWKEENTPIITQNGPCPLLAILNVL LLAWK
 VKLPPMMEIITAEQLMEYLDYMLDAKPKIEIQRLNYEQNMSDAMAILHKLQGLDVNVRFTGVRVFE
 YTPECIVFDLLDIPLYHGWL VDPQIDDI V KAVGNCSYNQLVEKII SCKQSDNSELVSEGVAEQFLNNTA
 TQLTYHGLCELTSTVQEGELCVFFRNHFSTMTKYKQLYLLVTDQGF L TEEKVWVESLHNV DGDGNFCD
 SEFHLRPPSPDPETVYKGGQDQIDQDYL MALSLQQEQQSQEINWEQIPEGISDLELAKKLQEEEDRRASQY
 YQEQEQA AAAAAA AASTQAQQQPAQASPSSGRQSGNSERKRKEPREKDKEKEKNSCVIL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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.

RefSeq: [NM_001040450.3](#)

RefSeq Size: 5013 bp

RefSeq ORF: 1866 bp

Locus ID: 54629

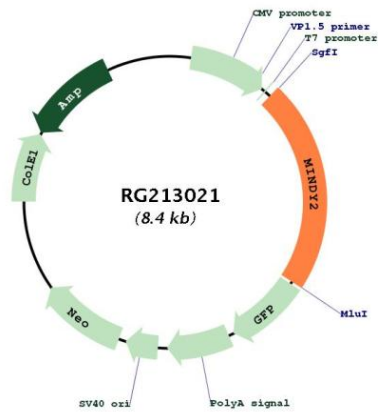
UniProt ID: [Q8NBR6](#)

Cytogenetics: 15q21.3-q22.1

Protein Families: Druggable Genome

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 RG213021