

## Product datasheet for **RG214614**

### **MINDY2 (NM\_001040453) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                              |
|---------------------------|----------------------------------------------|
| Product Type:             | Expression Plasmids                          |
| Product Name:             | MINDY2 (NM_001040453) 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:**

>RG214614 representing NM\_001040453  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**C

ATGGAGAGCAGCCCCGAGAGCCTGCAGCCGCTAGAACACGGGGTGGCGGCCGGGCCAGCGTCAGGGACAG  
 GTTCTTCGAGGAAGGGCTACAGGAGACCAGGCTCGCCGCTGGTGATGGTCTGGGGTATGGCGGCGGA  
 GACCAGCGGCGGGAATGGGCTGGGGCGGCGGCCGCCAGGAGGAGCCTCCCGACTCGGCTTCTCCCGCG  
 GGCTCTCTGAGGTTCCCGGACCCTGCAGCTCTCCGCGGGTTTGGACTTGAAGGACAGTGGTTTGGAGA  
 GTCCTGCTGCCGCCGAGGCGCTCTGAGAGGGCAGTACAAGGTGACCGCCTCCCGGAGACAGCCGTGGC  
 CGGAGTGGGTATGAGTTGGGTACCGCCGAGACGCGGGAGCCCGCCGGATCTCGCCGGCACCTGCCAA  
 GCAGAAGTACCGCCGCCGGCTCCGAAGAGCCAGCAGCGCCGGCGGCTCAGCAGCAGTTGCAGCGACC  
 CGAGCCCTCTGGGAATCTCCGAGCCTGGACTCTCTGGAGTCTTCTAACCTGCATTCTTTCCAG  
 TAGCTGCGAGTTCAATAGTGAGGAGGGAGCGGAGAACAGGGTCCCTGAGGAGGAGAGGGCGCGCGGTG  
 TTGCCCGGGGCTGTTCTCTGTGCAAGGAGGAGGAGGGGGAGGAGACCGCTCAGGTGCTGGCGGCCTCCA  
 AGGAACGCTTCCCGGACAATCTGTGTATCACATCAAGTGGATCCAGTGAAGGAAGAGAACACACCCAT  
 CATCACCCAGAATGAGAACGGACCCTGCCCTTGTCTGGCCATCCTCAATGTTTTGCTCCTGGCCTGGAAG  
 GTGAAACTTCCACCGATGATGGAATCATAACTGCTGAGCAGCTGATGGAATATTTAGGAGATTACATGC  
 TTGATGCAAGCCAAAAGAAATTCAGAAATTAACGTTTAAATTATGAACAGAAATAGAGTGATGCCAT  
 GGCAATTTTGCACAACTACAGACAGGCTGGATGTAATGTAAGATTCACTGGTGTTCGAGTGTGTGAA  
 TATACACCAGAATGCATAGTATTTGATCTTCTTGATATTCCTTTGTACCATGGGTGGTGTAGTAGCCCTC  
 AGATTGATGACATTGTAAAAGCTGTTGGTAAGTGAAGGCTTTGTAGCTGAGCAGTTTCTAAATAACACAGCC  
 TAAACAGTCAGACAATAGTGAGCTGGTTAGTGAAGGCTTTGTAGCTGAGCAGTTTCTAAATAACACAGCC  
 ACTCAACTGACATACCATGGATTATGTGAACAACTTCAACGGTTCAGGAAGGAGAACTTTGTGTGTCT  
 TTCGGAATAATCATTTTAGCACCATGACCAATACAAGGGTCAACTGTATTTGTTGGTAACGGACACGGG  
 GTTTCTTACTGAAGAGAAAGTTGTTGGGAAAGCCTACACAACGTAGATGGTGTGGAATTTCTGTGAC  
 TCAGAATTTATCTTCGACCTCCTCAGATCCTGAACTGTATACAAAGGACAACAAGATCAGATAGATC  
 AGGATTATCTTATGGCATTATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGGAACAAATCCC  
 GGAAGGAATCAGTATTTGGAAGTAGCAAGAACTCCAAGAGGAAGAGGACAGACGGGCTTCTCAATAC  
 TATCAGGAACAGGAACAAGCAGCAGCTGCTGCTGCTGCTTCTACACAGGCTCAGGGCCAGCCAGCAC  
 AAGCCTCTCCATCAAGTGAAGACAATCTGGGAATAGTGAACGTAACGGAAGGAACACAGAAAAAGA  
 TAAAGAAAAAGAAAGGAAAAAATAGCTGTGTTATTTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

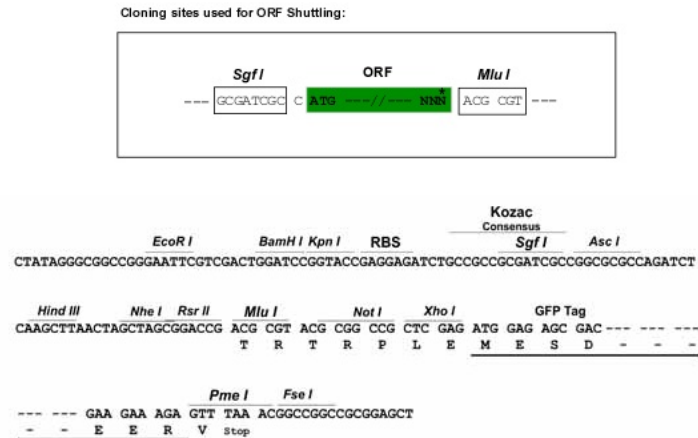
>RG214614 representing NM\_001040453  
 Red=Cloning site Green=Tags(s)

MESSPESLQPLEHGVAAGPASGTGSSQEGLQETRLAAGDGPVWAAETSGGNLGA AAAARRSLPDSASPA  
 GSPEVPGPCSSSAGLDLKDGLSPAAAEAPLRGQYKVTASPETA VAGVGHELGTAGDAGARPDLAGTCQ  
 AELTAAGSEEPSSAGGLSSSCSDPSPGESPLDSLESFNLHSFPSSCEFNSEEGAENRVPEEEGA AV  
 LPGAVPLCKEEEGEETAQVLAASKERFPGQSVYHIKWIQWKEENTPIITQ NENGPCLLAILNVL LLA WK  
 VKLPPMMEIITAEQLMEYLDYMLDAKPKEISEIQRLNYEQNMSDAMAILHKLQTGLDVNVRFTGVRVFE  
 YTPECIVFDLLDIPLYHGWLVDPQIDDIKAVGNCSYNQLVEKII SCKQSDNSELVSEGFVAEQFLNNTA  
 TQLTYHGLCELTSTVQEGELCVFFRNHFSTMTKYKQLYLLVTDQGF LTEEKVVWESLHNVDG DGNFCD  
 SEFHLRPPSPDPETVYKGGQDQIDQDYLMA LSLQQEQSQSEINWEQIPEGISDLELAKKLQEEEDRRASQY  
 YQEQEQAAAAAAASTQAQGQPAQASPSGRQSGNSERKRKEPREKDKEKEKEKNSCVIL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001040453

**ORF Size:** 1860 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\\_001040453.3](#)

**RefSeq Size:** 5010 bp

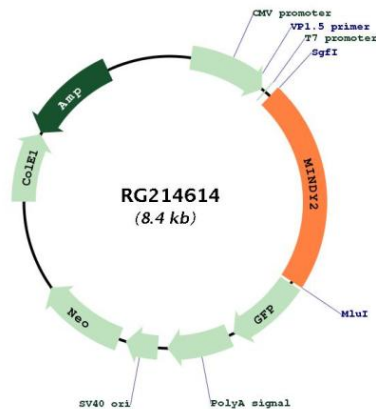
**RefSeq ORF:** 1863 bp

**Locus ID:** 54629

**UniProt ID:** [Q8NBR6](#)

|                          |                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cytogenetics:</b>     | 15q21.3-q22.1                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Families:</b> | Druggable Genome                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Summary:</b>     | 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 RG214614