

Product datasheet for **RC216010**

MINDY1 (NM_018379) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MINDY1 (NM_018379) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MINDY1
Synonyms:	FAM63A; MINDY-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC216010 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATACCATCAGCCTGAGGATCCAGCCCCTGGTAAGGCCGGGACTGCAGAAGCAGTCATCCCTGAAA
 ACCATGAGGTTCTGGCAGGCCAGATGAGCACCTCAGGACACAGATGCAAGAGATGCTGATGGGGAGGC
 TAGAGAACGGGAGCCAGCAGACCAAGCTTTGCTGCCTAGCCAGTGTGGGACAACCTTGAGTCCCCCTCTG
 CCTGAAGCTAGCTCAGCTCCACCGGGGCCAACCTTGGGACACTGCCTGAAGTAGAGACAATAAGGGCAT
 GCTCCATGCCAGGAGCTTCTCAGTCCCCAGGACCCGACAGCCTGAGCCAGATTTCTACTGTGTCAA
 GTGGATCCCTTGAAAGGAGAACAGACACCCATCATCACCCAGAGCACTAACGGCCCTTGCCTCTCCTT
 GCCATCATGAACATCCTCTTTCTCAGTGAAGGTGAAGTCCCCCGCAGAAGGAAGTGATCACATCGG
 ATGAGCTCATGGCCATCTTGGAACTGCCTCCTGTCCATCAAGCCCCAGGAGAAGTCAGAGGGACTTCA
 GCTTAATTTTCAGCAGAATGTGGATGATGCAATGACAGTGTCTAACTGGCCACAGGCTGATGTC
 AATGTGCGATTACAGGCGTCTCTGATTTTGAGTATACACCCGAGTGCAGTGTCTTTGACCTGCTAGGCA
 TACCTCTGTACCATGGCTGGCTTGTGATCCACAGAGTCTGAGGCTGTGCGTGCAGTTGGGAACTGAG
 TTACAACCAGCTGGTGGAGAGGATCATCACCTGCAAACTCCAGTGACACCAACCTCGTGACAGAAGGC
 CTGATTGCAGAGCAGTTCTGGAGACCACCGGCCAGCTGACCTACCACGGACTGTGTGAGCTGACAG
 CAGCTGCTAAGGAGGGTGAACCTAGCGTCTTTTCCGAAACAACCACTTTAGCACCATGACTAAGCATAA
 GAGTCACTTATACCTACTGGTCACTGACCAGGGCTTTCTACAGGAGGAGCAAGTCGATGGGAGAGCCTG
 CACAATGTGGATGGAGACAGCTGCTTTTGTGACTCTGACTTTACCTGAGTCATTCCCTGGGCAAGGGGC
 CTGGAGCAGAAGGTGGGAGTGGCTCCCCAGAAAAGCAGCTGCAGGTAGACCAGGACTACCTGATTGCTCT
 GTCCCTGCAGCAGCAACAGCCACGAGGCCGCTGGGGCTTACCGACTTGGAGCTGGCCAGCAGCTTCAG
 CAAGAGGAGTATCAACAGCAGCAGGCAGCGCAGCCAGTGCAGGATGCGGACGCGGGTCTGTCACTGCAGG
 GGAGAGGAGCCACATCTGGACGCCAGCCGGGAGCGTCGGCAGAGGCCGAAGCACGAGTCAGACTGCAT
 TCTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216010 protein sequence
 Red=Cloning site Green=Tags(s)

MEYHQPEDPAPGKAGTAEAVIPENHEVLAPDEHPQDTDARDADGEAREREPADQALLPSQCGDNLESPL
 PEASSAPPGPTLGLTPEVETIRACSMPELQSPRTRQPEPDFYCVKWIPWKGEQTPIITQSTNGPCPLL
 AIMNIFLQWKVKLPPQKEVITSDELMHNLGNLLSIKPQEKSEGLQLNFQQNVDDAMTVLPKLATGLDV
 NVRFITGVSDFEYTPESVFDLLGIPLYHGWLVDPQSPEAVRAVGKLSYNQLVERIITCKHSSDTNLVTEG
 LIAEQFLETTAAQLTYHGLCELTAAKEGELSVFFRNNHFSTMTKHKSHLYLLVTDQGFQEEQVWESL
 HNVGDGSCFCDSDFHLSHSLGKGPAGGSGSPEKQLQVDQDYLIALLSQQQPRGPLGLTDLELAQQLQ
 QEEYQQQQAAPVRMTRVLSLQGRGATSGRPAGERRQRPKHESDCILL

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6726_b02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018379

ORF Size: 1407 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_018379.4](#), [NP_060849.2](#)

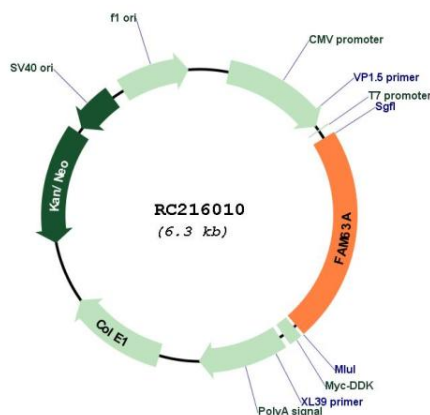
RefSeq Size: 2851 bp

RefSeq ORF: 1410 bp

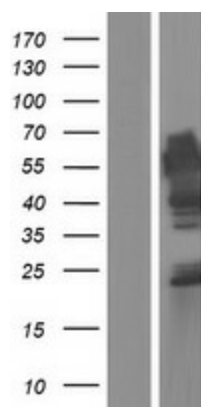
Locus ID: 55793

UniProt ID:	Q8N5J2
Cytogenetics:	1q21.3
Domains:	DUF544
MW:	51.8 kDa
Gene Summary:	Hydrolase that can specifically remove 'Lys-48'-linked conjugated ubiquitin from proteins. Has exodeubiquitinase activity and has a preference for long polyubiquitin chains. May play a regulatory role at the level of protein turnover.[UniProtKB/Swiss-Prot Function]

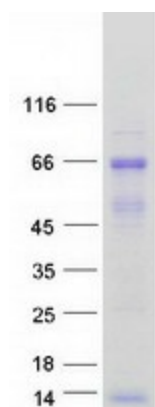
Product images:



Circular map for RC216010



Western blot validation of overexpression lysate (Cat# [LY413073]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216010 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MINDY1 protein (Cat# [TP316010]). The protein was produced from HEK293T cells transfected with MINDY1 cDNA clone (Cat# RC216010) using MegaTran 2.0 (Cat# [TT210002]).