

Product datasheet for **MR201843**

Rnf185 (BC014812) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf185 (BC014812) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnf185
Synonyms:	MGC19394
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201843 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAGTAAAGGGCCTTCGGCCTCTGCATCCACTGAGAATCCAATGCAGGGGGGCCAGTGGCAGCA
GCAATGGCACTGGTGAGAGTGGAGGGCAGGACAGCACCTTTGAGTGCAACATATGCCTGGACACAGCCAA
GGATGCTGTCATCAGCCTGTGTGGCCACCTCTTCTGTTGGCCGTGTTTACATCAGTGGTTGGAGACTAGG
CCTAACAGACAAGTGTGTCCAGTCTGCAAAGCTGGCATCAGCCGAGACAAAGTCATCCCCCTCTATGGCA
GAGGCAGCACTGGACAGCAGGATCCCAGAGAGAAGACTCCTCCTCGTCTCAAGGCCAGAGGCCAGAGCC
AGAAAATAGAGGGGGATTCAAGGATTTGGATTTGGAGATGGTGGCTTTCAGATGTCTTTTGAATTGGA
GCATTTCCATTTGGGATATTTGCCACAGCATTTAACATAAATGATGGACGGCCTCCTCCAGCTGTCCCTG
GGACACCCAGTATGTGGATGAGCAGTTCCTGTACGCCTCTTCTGTTTGTGCGCCTGGTATCATGTT
CTGGCTCTGATCGCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR201843 protein sequence Red=Cloning site Green=Tags(s)
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MASKGPSASASTENSNAGGPPSGSSNGTGESGGQDSTFECNICLDTAKDAVISLCHLFCWPCLHQWLETR
PNRQVCPVCKAGISRDKVIPLYGRGSTGQQDPREKTPPRPQGRPEPENRGGFQGFQFDGGFQMSFGIG
AFPFIFATAFNINDGRPPPAVPGTTPQYVDEQFLSRLFLFVALVIMFWLLIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC014812

ORF Size: 576 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: [BC014812](#), [AAH14812](#)

RefSeq Size: 2736 bp

RefSeq ORF: 578 bp

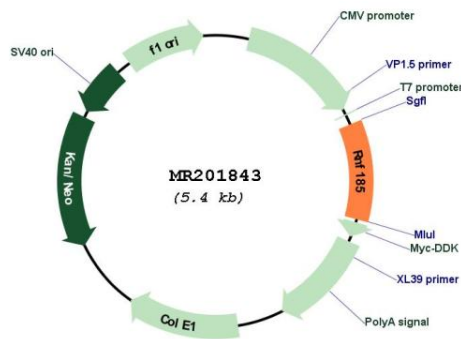
Locus ID: 193670

Cytogenetics: 11 A1

MW: 20.5 kDa

Gene Summary: E3 ubiquitin-protein ligase that regulates selective mitochondrial autophagy by mediating 'Lys-63'-linked polyubiquitination of BNIP1. Acts in the endoplasmic reticulum (ER)-associated degradation (ERAD) pathway, which targets misfolded proteins that accumulate in the endoplasmic reticulum (ER) for ubiquitination and subsequent proteasome-mediated degradation. Protects cells from ER stress-induced apoptosis. Responsible for the cotranslational ubiquitination and degradation of CFTR in the ERAD pathway. Preferentially associates with the E2 enzymes UBE2J1 and UBE2J2 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201843