

Product datasheet for **MG201843**

Rnf185 (BC014812) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnf185 (BC014812) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rnf185
Synonyms: MGC19394
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201843 representing BC014812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAAGTAAAGGGCCTTCGGCCTCTGCATCCACTGAGAATCCAATGCAGGGGGGCCAGTGGCAGCA
 GCAATGGCACTGGTGAGAGTGGAGGGCAGGACAGCACCTTTGAGTGCAACATATGCCTGGACACAGCCAA
 GGATGCTGTCATCAGCCTGTGTGGCCACCTCTTCTGTTGGCCGTGTTTACATCAGTGGTTGGAGACTAGG
 CCTAACAGACAAGTGTGTCCAGTCTGCAAAGCTGGCATCAGCCGAGACAAAGTCATCCCCCTCTATGGCA
 GAGGCAGCACTGGACAGCAGGATCCCAGAGAGAAGACTCCTCCTCGTCTCAAGGCCAGAGGCCAGAGCC
 AGAAAATAGAGGGGATTTCAGGATTTGGATTTGGAGATGGTGGCTTTCAGATGTCTTTTGAATTGGA
 GCATTTCCATTTGGGATATTTGCCACAGCATTTAACATAAATGATGGACGGCCTCCTCCAGCTGTCCCTG
 GGACACCCAGTATGTGGATGAGCAGTTCCTGTACGCCTCTTCTGTTTGTGCGCCTGGTATCATGTT
 CTGGCTCTGATCGCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201843 representing BC014812
 Red=Cloning site Green=Tags(s)

MASKGPSASASTENSNAGGPPSGSSNGTGESGGQDSTFECNICLDTAKDAVISLCGHLFCWPCLHQWLETR
 PNRQVCPVCKAGISRDKVIPLYGRGSTGQQDPREKTPPRPQGQRPEPENRGGFQGFQGGFQMSFGIG
 AFPPGIFATAFNINDGRPPPAVPGTPQYVDEQFLSRLFLFVALVIMFWLLIA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: BC014812

ORF Size: 578 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

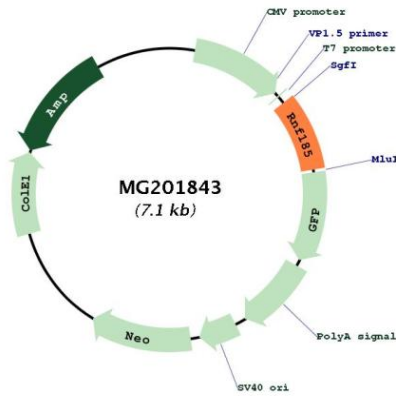
Locus ID: 193670

Cytogenetics: 11 A1

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 MG201843