

Product datasheet for **RG207827**

RNF185 (NM_152267) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: RNF185

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207827 representing NM_152267
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAGCAAGGGGCCCTCGGCCTCTGCATCTCCTGAGAACTCCAGTGCAGGGGGGCCAGTGGGAGCA
GCAATGGCGCTGGCGAGAGCGGAGGGCAGGACAGCACTTCGAGTGCACATCTGCTTGGACACAGCCAA
GGATGCCGTATCAGCCTGTGTGGCCACCTCTTCTGTTGGCCGTGTTACATCAGTGGTTGGAGACCAGA
CCTAACAGACAGGTGTGTCTGTTTGAAGCTGGCATCAGCCGAGACAAGGTATCCCCCTCTATGGAA
GGGGCAGCACTGGGCAACAGGACCCAGAGAGAAGACCCCTCCTCGTCTCAAGGACAGAGGCCAGAGCC
GGAGAATAGAGGGGATTTCAAGGATTTGGATTTGGAGATGGTGGCTTCCAGATGCTTTTGAATTGGG
GCATTTCCCTTTGGGATATTTGCCACAGCATTTAATAAATGATGGGCGCCCTCCTCCAGCTGTCCCTG
GGACACCCAGTATGTGGACGAGCAGTTCTGTACGCCTCTTCTATTTGTGGCCCTGGTGATCATGTT
CTGGCTCCTGATTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207827 representing NM_152267
Red=Cloning site Green=Tags(s)

MASKGPSASASPENSSAGGPSGSSNGAGESGGQDSTFECNICLDTAKDAVISLCGHLFCWPCLHQWLETR
PNRQVCPVKAGISRDKVIPL YGRGSTGQQDPREKTPRPQQRPEPENRGGFGGFGDGGFQMSFGIG
AFPFGIFATAFNINDGRPPPAVPGTPQYVDEQFLSRLFLFVALVIMFWLLIA

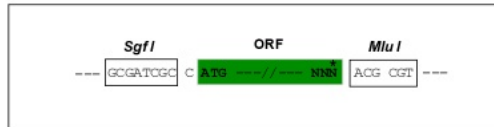
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAAGTACTAGCTAGCGGACG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

PmeI FseI

--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - E E R V Stop

ACCN: NM_152267

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152267.4](#)

RefSeq Size: 3240 bp
RefSeq ORF: 579 bp
Locus ID: 91445

UniProt ID: [Q96GFI](#)

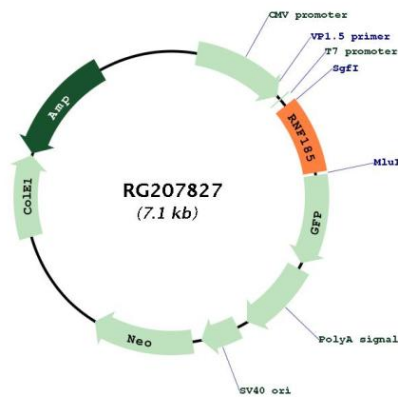
Cytogenetics: 22q12.2

Domains: RING

Protein Families: Druggable Genome, Transmembrane

Gene Summary: E3 ubiquitin-protein ligase that regulates selective mitochondrial autophagy by mediating 'Lys-63'-linked polyubiquitination of BNIP1 (PubMed:21931693). 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 (PubMed:27485036). Protects cells from ER stress-induced apoptosis (PubMed:27485036). Responsible for the cotranslational ubiquitination and degradation of CFTR in the ERAD pathway (PubMed:24019521). Preferentially associates with the E2 enzymes UBE2J1 and UBE2J2 (PubMed:24019521).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207827