

Product datasheet for **RC207827**

RNF185 (NM_152267) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNF185 (NM_152267) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RNF185
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207827 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAGCAAGGGGCCCTCGGCCTCTGCATCTCCTGAGAACTCCAGTGCAGGGGGGCCAGTGGGAGCA
GCAATGGCGCTGGCGAGAGCGGAGGGCAGGACAGCACTTTCGAGTGCAACATCTGCTTGGACACAGCCAA
GGATGCCGTATCAGCCTGTGTGGCCACCTCTTCTGTTGGCCGTGTTACATCAGTGGTTGGAGACCAGA
CCTAACAGACAGGTGTCTCTGTTTGCAAAGTGGCATCAGCCGAGACAAGGTCATCCCCCTCTATGGAA
GGGGCAGCACTGGGCAACAGGACCCAGAGAGAAGACCCCTCTCGTCTCAAGGACAGAGCCAGAGCC
GGAGAATAGAGGGGATTTCAAGGATTTGGATTTGGAGATGGTGGCTTCCAGATGCTTTTGGAAATTGGG
GCATTTCCCTTTGGGATATTTGCCACAGCATTTAATAAATGATGGCGGCCTCCTCCAGCTGTCCCTG
GGACACCCAGTATGTGGACGAGCAGTTCCTGTACGCCTCTTCTATTTGTGGCCCTGGTATCATGTT
CTGGCTCTGATTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207827 protein sequence
Red=Cloning site Green=Tags(s)

MASKGPSASAPENS SAGGPSGSSNGAGESGGQDSTFECNICLDTAKDAVISLCGHLFCWPCLHQWLETR
PNRQVCPVCKAGISRDKVIPL YGRGSTGQQDPREKTPPRPQQRPEPENRGGFQGFQGGGFMQSFQIG
AFPFQIFATAFNINDGRPPPAVPGTPQYVDEQFLSRLFLFVALVIMFWLLIA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6338_f09.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: [NM_152267.4](#)

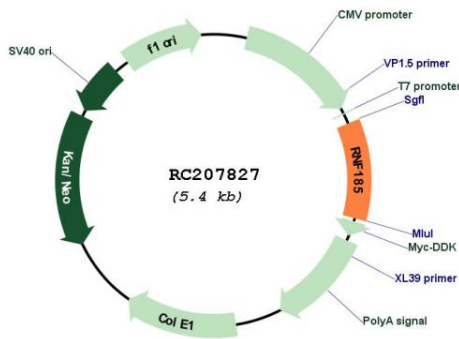
RefSeq Size: 3218 bp

RefSeq ORF: 579 bp

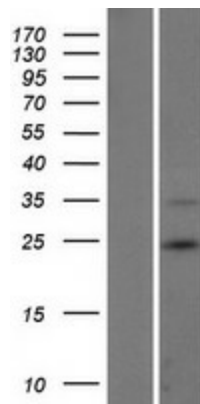
Locus ID: 91445

UniProt ID: [Q96GF1](#)

Cytogenetics: 22q12.2
Domains: RING
Protein Families: Druggable Genome, Transmembrane
MW: 20.5 kDa
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 RC207827



Western blot validation of overexpression lysate (Cat# [LY427719]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226752] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).