

Product datasheet for **RG226752**

RNF185 (NM_001135824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RNF185
Synonyms:	BSK65-MONO1; BSK65-MONO2; BSK65-PANC1; BSK65-PANC2; BSK65-TEST1; BSK65-TEST2; BSK65-TEST3; FLJ38628; ring finger protein 185
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG226752 representing NM_001135824
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAGCAAGGGGCCCTCGGCCTCTGCATCTCCTGAGAACTCCAGTGCAGGGGGGCCAGTGGGAGCA
GCAATGGCGCTGGCGAGAGCGGAGGGCAGGACAGCACTTTCGAGTGCAACATCTGCTTGGACACAGCCAA
GGATGCCGTATCAGCCTGTGTGGCCACCTCTTCTGTTGGCCGTGTTTACATCAGTGGTTGGAGACCAGA
CCTAACAGACAGGTGTGTCCTGTTTGCAAAGCTGGCATCAGCCGAGACAAGGTCATCCCCCTCTATGGAA
GGGGCAGCACTGGGCAACAGGACCCAGAGAGAAGACCCCTCCTCGTCCTCAAGGACAGAGGCCAGAGCC
GGAGAATAGAGGGGGATTTCAGGATTGATTGGAGATGGTGGCTTCCAGATGTCTTTTGGAAATTGGG
GCATTTCCCTTTGGGATATTTGCCACAGCATTTAATAAATGATGGGCGGCCTCCTCCAGCTGTCCCTG
GGACACCCAGTATGTGGACGAGCAGTTCCTGTCACGCCTCTTCTATTGTGGCCCTGGTGATCATGTT
CTGGCTCCTGATTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226752 representing NM_001135824
Red=Cloning site Green=Tags(s)

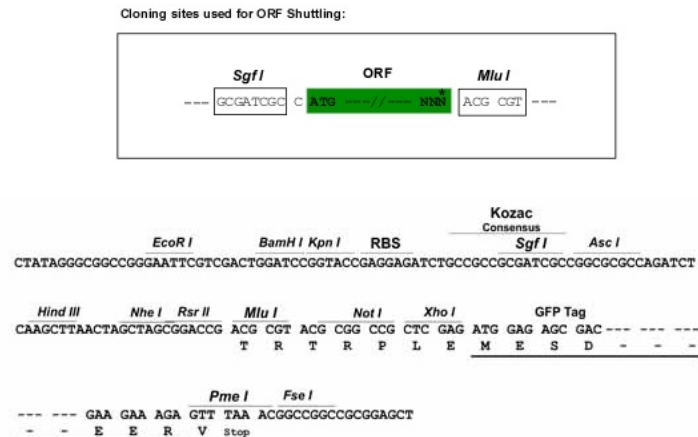
MASKGPSASASPENSSAGGPSGSSNGAGESGGQDSTFECNICLDTAKDAVISLCGHLFCWPC LHQWLETR
PNRQVCPVCKAGISRDKVIPL YGRGSTGQQDPREKTPPRPQGQRPEPENRGFGFGFGDGGFQMSFGIG
AFPFGIFATAFNINDGRPPPAVPGTPQYVDEQFLSRLFLFVALVIMFWLLIA

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135824

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_001135824.1, NP_001129296.1

RefSeq Size: 2635 bp

RefSeq ORF: 578 bp

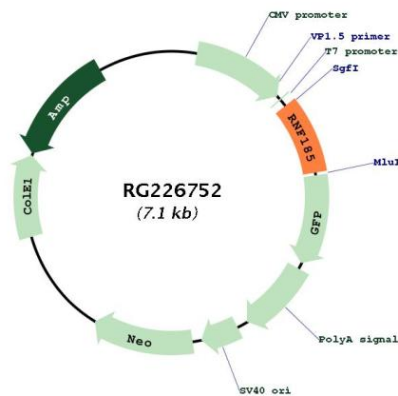
Locus ID: 91445

Cytogenetics: 22q12.2

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 RG226752