

Product datasheet for **RG201440**

RNF183 (NM_145051) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: RNF183 (NM_145051) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: RNF183
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG201440 representing NM_145051
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCTGAGCAGCAGGGCCGGGAGCTTGAGGCTGAGTGCCCCGTCTGCTGGAACCCCTTCAACAACACGT
 TCCATACCCCCAAAATGCTGGATTGCTGCCACTCCTTCTGCGTGGAAATGCTGGCCACCTCAGCCTTGT
 GACTCCAGCCCGGCGCCGCTGTGTGCCACTCTGTCCGACGCCACAGTGCTGGCCTCAGGGCAGCCT
 GTCACTGACTTGCCACGGACACTGCCATGCTCACCTGCTCCGCTGGAGCCCCACCATGTCATCCTGG
 AAGGCCATCAGCTGTGCCTCAAGGACCAGCCCAAGAGCCGCTACTTCTGCGCCAGCCTCGAGTCTACAC
 GCTGGACCTTGGCCCCAGCCTGGGGGCCAGACTGGGCCGCCCCAGACACGGCCTCTGCCACCGTGTCT
 ACGCCCATCCTCATCCCCAGCCACCACTCTTTGAGGGAGTGTTCGCAACCCTCAGTTCGCATCTTTG
 CCTACCTGATGGCCGTCATCCTCAGTGTACTCTGTTGCTCATATTCTCCATCTTTGGACCAAGCAGTT
 CCTTTGGGGTGTGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201440 representing NM_145051
 Red=Cloning site Green=Tags(s)

MAEQQGRELEAECPCWNPFNNTFHTPKMLDCCHSFCVECLAHLVTPARRRLLCPLCRQPTVLASGQP
 VTDLPTDTAMLTLRLEPHHVILEGHQLCLKDQPKSRYFLRQPRVYTLDLGPQPGGQTGPPPDATASATVS
 TPILIPSHSLRECFRNPQFRIFAYLMAVILSVTLILIFSIWTKQFLWGVG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_145051

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_145051.2](#), [NP_659488.1](#)

RefSeq Size: 1265 bp

RefSeq ORF: 579 bp

Locus ID: 138065

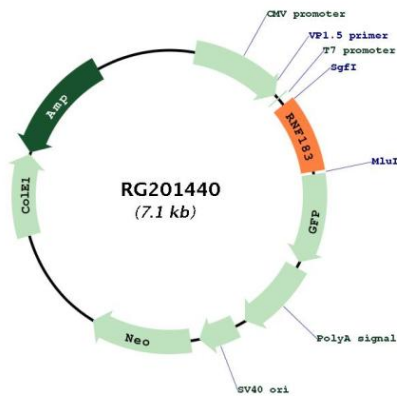
UniProt ID: [Q96D59](#)

Cytogenetics: 9q32

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Acts as a E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins (PubMed:29507230). Triggers apoptosis in response to prolonged ER stress by mediating the polyubiquitination and subsequent proteasomal degradation of BCL2L1 (PubMed:29507230). May collaborate with FATE1 to restrain BIK protein levels thus regulating apoptotic signaling (PubMed:26567849).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201440