

Product datasheet for **RC205902**

RNF186 (NM_019062) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: Myc-DDK
Symbol: RNF186
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205902 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTGCACCAAGACCCTGCAACAGTCCCAGCCCATCTCCGAGGAGCCACCACAACCACCACCGCTG
TGGCCCTGCTGGGGTCACTTCTGGCTCCACAGAATGTGACCTGGAGTGTCTGGTGTGCCGGGAGCCCTA
CAGCTGTCCCGGTTGCCAAGCTGCTGGCCTGCCAGCATGCCTTCTGCGCCATCTGCCTGAAGCTCCTG
CTGTGCGTGCAGGACAACACCTGGTCCATCACCTGCCCGCTGTGCCGCAAGGTACCGCCGTCCTCCGGG
GCCTCATCTGCAGCCTGCGGACCATGAGGCGGTGGTGGGCGAGCTGGCCAGCCATGCACAGAGGTATC
GCTCTGTCTCAGGGGCTGGTGGATCCTGCTGACTTGGCAGCAGGACACCCAGCTTGGTGGGAGAGGAT
GGACAGGATGAAGTAAGTGCAAACACGTGGCAGCCCGGCGCCTGGCCGCGCACCTACTCTGCTGGCCT
TGCTCATTATCCTCATCGGGCCCTTCTACCTACCGGGTGTCTTACGATGGGTGCTCACCTTCATCATCGC
CCTGGCCCTGCTGATGTCCACCTCTTCTGCTGTCTCCAGCAGCCGGGCGAGCTGCTGGCCCTCTCC
AGGACTCTCTTGCAGAGAGCAGAAACACAGCCACATCTCTCCATTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205902 protein sequence
Red=Cloning site Green=Tags(s)

MACTKTLQQSQPISAGATTTTTAVAPAGHSGSTECdleclVcrepYscPRLPKLLACQHAfCAICLKL
LCVQDNTWSITCPLCRKVTAVPGGLICSLRDHEAVVQLAQPCTEVSLCPQGLVDPADLAAGHPSLVGED
GQDEVSAHVAAARRLAHLLLALLIILIGPFIYPGVLRWLTFIALALLMSTLFCCLPSTRGSCWPSS
RTLFCREQKSHISSIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

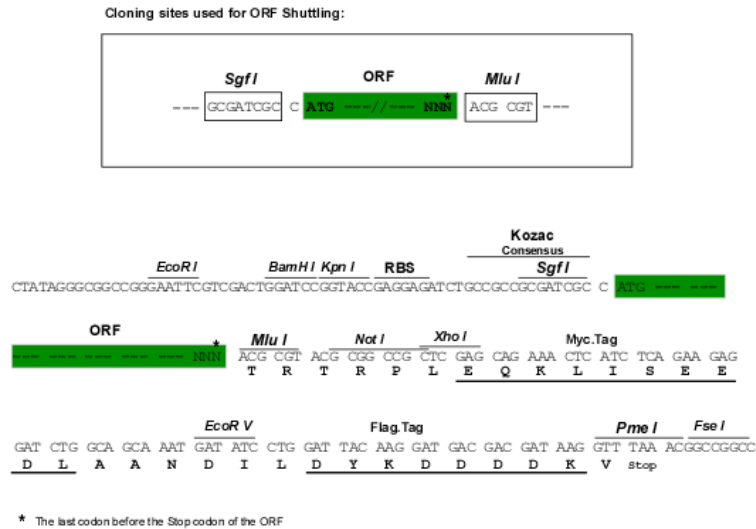
Chromatograms: https://cdn.origene.com/chromatograms/mk6770_d01.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019062

ORF Size: 681 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.

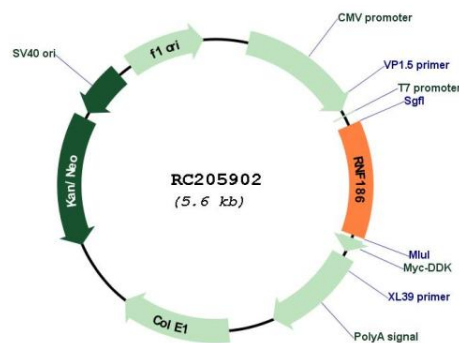
RefSeq: [NM_019062.2](#)

RefSeq Size: 1268 bp

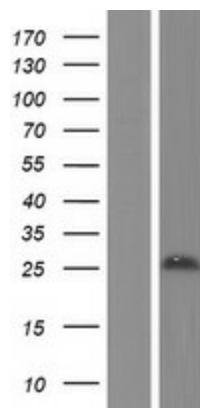
RefSeq ORF: 684 bp

Locus ID:	54546
UniProt ID:	Q9NXI6
Cytogenetics:	1p36.13
Protein Families:	Druggable Genome, Transmembrane
MW:	24.1 kDa
Gene Summary:	E3 ubiquitin protein ligase that is part of an apoptotic signaling pathway activated by endoplasmic reticulum stress (PubMed:23896122). In that process, stimulates the expression of proteins specific of the unfolded protein response (UPR), ubiquitinates BNIP1 and regulates its localization to the mitochondrion and induces calcium release from the endoplasmic reticulum that ultimately leads to cell apoptosis (PubMed:23896122). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205902



Western blot validation of overexpression lysate (Cat# [LY412775]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205902 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).