

Product datasheet for **MR202649**

Rnf186 (NM_025786) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf186 (NM_025786) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnf186
Synonyms:	9130020G10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202649 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTCCTGCACTGAGGCCCCACAGCCTATCCCAGCGGGTACCACCACCACCAGCACCATCATTGCCTTGG
GGCCACCGGGCGGCTCAGCATCTCTGTGGAGGGTGACCTGGAATGCTTGGTGTGCCGAGAGCCCTACAA
CTGTGCTCGGTCCCCAAGCTGCTTAGCTGTCAGCATACCTTCTGTGCCGTATGCCTGAAGCTTCTGCTA
TATGTGCAGGAAGACACCTGGTCCATCCCCTGTCCGCTGTGCCGAAAGGTCAGTCTGTCCCGGAGGCC
TCATCTGCAGCTTGCGAGACCAGGAGGCGATGGTGGGGCGTCTGGCCCTGCCATGCCAGAGGTGCGCCT
ATGTCCTCAGAGGCTAGTGGGTTCTGCCGCTTCAGCAACTCGGCCAGCCAACTGGACAGGAGAAGAAGAA
CAGGACACTGTAAGTGTCAACCGTGTAGCTGCCCGGCGCCTGGCTGTACACTTGCTCTTGTGGCTCTTG
TCATTGTCCTTATCCTGCCTTTTCATCTACCCGGGTGTCATCCGGTGGGTGTTGGCCTTTGTCAATTGCTCT
GGCTCTCCTGATGTCCACCCTATTCTGCTGTCACCCCCAGAGCCAGAACAGCAACTGGCTTTGCCCCAGG
ACTCTGTTCTGCAGAGAGCAAAGCAAACCCAGATCACTTCTATTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

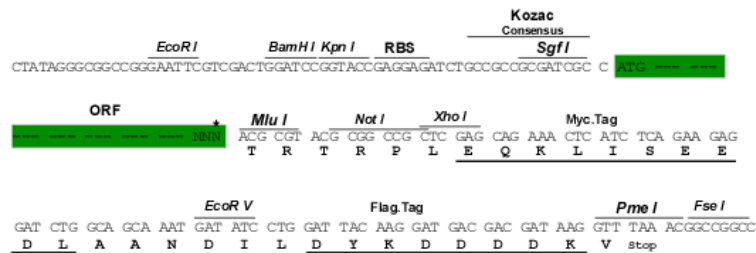
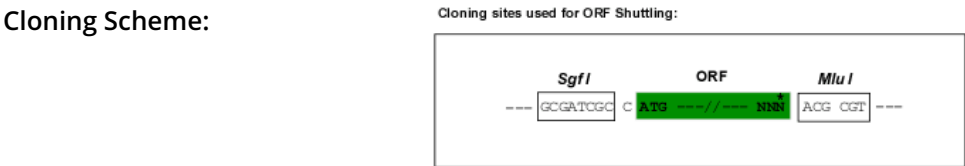

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Protein Sequence: >MR202649 protein sequence
 Red=Cloning site Green=Tags(s)

MSCTEAPQPIAGTTTTSTIIALGPTGRLSISVEGDLECLVCREPYNCARSPKLLSCQHTFCVCLKLLL
 YVQEDTWSIPCPLCRKVTAVPGLICSLRDQAMVGRALPCPEVRLCPQRLVGSAASTRPANWTGEEE
 QDTVSVNRVAARRLAVHLLLLLALVIVLILPFIYPGVIRWVLAFFVIALALLMSTLFCCHPQSQNSNWLCP
 TLFCREQKQTQITSIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



* The last codon before the Stop codon of the ORF

ACCN: NM_025786

ORF Size: 678 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_025786.2](#), [NP_080062.3](#)

RefSeq Size: 1273 bp

RefSeq ORF: 843 bp

Locus ID: 66825

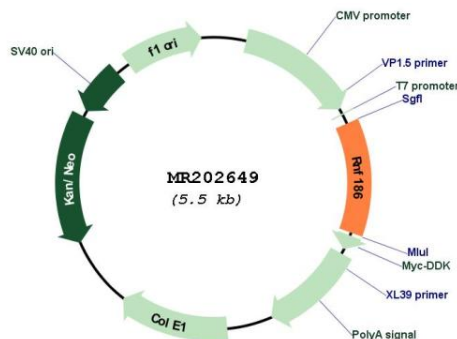
UniProt ID: [Q9D241](#)

Cytogenetics: 4 D3

MW: 24.7 kDa

Gene Summary: E3 ubiquitin protein ligase that is part of an apoptotic signaling pathway activated by endoplasmic reticulum stress. 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202649