

## Product datasheet for MR205943

### Rnf13 (NM\_001113413) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf13 (NM_001113413) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnf13
Synonyms:	2010001H16Rik; Rz; Rzf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205943 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCTCTCCATTGGGATGCTCATGCTGTCCGCCACACAGGTCTACACCATCTTGACTGTGCAGCTCT  
TTGCATTCCTAAACCTGCTGCCTGTAGAAGCAGACATTTTAGCATATAATTTGAAAATGCATCTCAGAC  
ATTTGAGGACCTCCAGCAAGATTTGGTTATAGACTACCAGCTGAAGGCTAAAGGGTTTCTGATTAAC  
TCAAAACCAGAGAATGCGTGTGAACCCATAGTGCCTCCACCACTGAAAGACAATCTTCCGGCAGCTTCA  
TCGTGCTGATTAGAAGACTTGATTGCAATTTTGATATAAAGGTTTAAATGCACAGAGAGCAGGATACAA  
AGCAGCCATAGTTCACAATGTAGACTCTGATGACCTGATTAGCATGGGATCCAACGACATTGATACACTA  
AAGAAAATTGACATTCGGTCTGTCTTTATTGGTGAATCATCAGCTAATCCCTGAAAGATGAATTCACAT  
ATGAAAAAGGGGGCCACATTATCTTAGTTCAGAACTGAGTCTTCTTTGGAGTACTATCTGATCCCTT  
CCTCATCATAGTGGGCATCTGCCTCATCTTAATAGTCAATTTTCATGATCACAAAATTTGTTCCAGGACAGA  
CATAGAAACAGAAGAAATAGACTTCGTAAGATCAACTTAAAAAATCCCGTACATAAAATTTAAAAAGG  
GAGATGAGTACGATGTGTGTGCTATCTGTCTGGAGGAGTGAAGACGGAGATAAGCTAAGGATCCCTCC  
CTGCTCCCATGCTTATCATTGCAAGTGTGTAGATCCCTGGCTAACTAAAACAAAAGACCTGTCCAGTC  
TGCAAAACAAAAGTTGTTCCCTCCAAAGGTGACTCGGACTCTGACACAGACAGCAGTCAGGAAGAAAAC  
AAGTGTGACAGCACACCCCTTTACTTCCACCCTCAGCTTCTGCCAGGACCCAGTCATTTGGGTCTCTGTC  
AGAATCCCACTCACATCACAACATGACAGAGTCTTCAGACTACGAGGACGACGACAATGAAGAGACCCGAC  
AGCAGTGACGACAGACAACGAAATACCGACCACAGTGTGTGGTCCAGCTGCAGCCGAACGGTGAGCAGG  
ATTACAACATAGCAAATACTGTG

**ACGGT**ACGGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205943 protein sequence  
 Red=Cloning site Green=Tags(s)

MLLSIGMLMLSATQVYITLVQLFAFLNLLPVEADILAYNFENASQTFEDLPAFGYRLPAEGLKGFLLN  
 SKPENACEPIVPPPLKDNSSGTFIVLIRRLDCNFDIKVLNAQRAGYKAAIVHNVSDDLISMGSNIDTL  
 KKIDIPSVFIGESSANSLKDEFTYEKGGHIIIVPELSLPLEYYLIPFLIIVGICLILIVIFMITKFVQDR  
 HRNRRNRLRKDQLKPLVHKFKKDEYDVCAICLEEYEDGDKLRILPCSHAYHCKCVDPLTKTKKTCPV  
 CKQKVVPSQGDSDSDTSSQEENQVSEHTPLPPSASARTQSFGLSESHSHHNMTESSDYEDDDNEETD  
 SSDADNEITDHSV VVQLQPNGEQDYNIANTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001113413

**ORF Size:** 1146 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\\_001113413.3](#)

**RefSeq Size:** 2676 bp

**RefSeq ORF:** 1146 bp

**Locus ID:** 24017

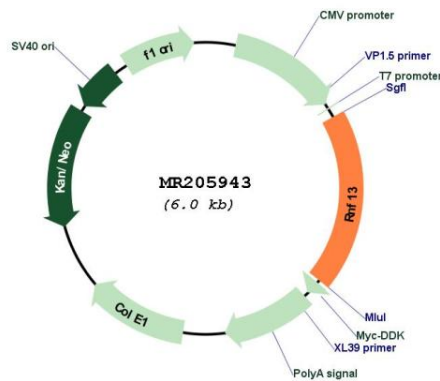
**UniProt ID:** [O54965](#)

**Cytogenetics:** 3 D

**MW:** 42.7 kDa

**Gene Summary:** This gene encodes a member of the PA-TM-RING family of proteins that contain a protease associated (PA) domain and a RING finger domain separated by a transmembrane (TM) domain. The encoded protein is an E3 ubiquitin ligase localized to the endosomal-lysosomal vesicles and inner nuclear membrane. Mice lacking the encoded protein have impaired learning abilities associated with a decreased synaptic vesicle density and dysregulated SNARE complex assembly. Alternative splicing of this gene results in multiple transcript variants. A pseudogene for this gene has been identified on the X chromosome. [provided by RefSeq, Jan 2015]

### Product images:



Circular map for MR205943