

Product datasheet for **MG220470**

Rnf133 (NM_198251) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf133 (NM_198251) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnf133
Synonyms:	Greul2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220470 representing NM_198251 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAATCCTCTTCAGACCAGTACTTGGCAAAACCAAGCTCCATCTTTCTGGCTTCTGAGATTCAGTTTCA
 TCTGGCTCGTCAGTCAGAAATGTTGTACAGCCAGTGCAGTTTGGACTGCGTACATGAACATATCATTTC
 TGTGGGAACCGCATGCTGTCAGAGCTGGGGGAGACCGGGTCTTCGGAAGAAGCTCCATCTTGAAGAGA
 GTAGCAGGAGTTGTTGTGCCACCAGAGGAAAAATTCAAATGCTTGTGATCCCAATACCACTTTTATCC
 TGCCACGGAACAAAGAGCCCTGGATCGCACTCATTGAACGGGAGGTTGTGCCTTCACACAGAAATTA
 GGTGGCATCTGAGCACGGAGCCAGAGGAGTGATCATCTATAATTTCCAGGTAAGCAACCAAGGTTTC
 CCCATGTCTCACCAGGCGTTTGAAGACATCGTTGTAGTTATGATTGGTAACATCAAAGCATATTTACCT
 TTTATCACATTCGGAGACTTTGGGTGGCAAGAATTGAGAACAGGAGATGGAAGCGATTAACAAGAGAGCT
 CAAGAAAGCTTTTGGCAGCTGCAAGTTCGAGTATTAAGAAGGGGATGAAGAAGTTAATCCAAATGCT
 GACAGCTGTGTCATCTGCTTTGAAGCCTATAAGCCTAATGAAATAGTTCGGATTCTCACTTGCAACATT
 TTTTCCACAAGAATTGCATTGACCCCTGGATTCTAGCCACGGCAGATGCCCCATGTGCAAAATGTGACAT
 TCTGAAAGCTCTGGGATTGAGATGGACATTGAGGATGGGACAGACTCTCTGCAAGTTCTGATGTCAAAT
 GAATTGCCCGAACCTTGTCAACCGTGAAGAAGAGACGAATGAGCTTCTCTGCAAGAATTCAA
 GTAAAGTGACCCAGTGCAGGAGCACCCTACTTCTTCTGCGAAGCTGGCAGCCAGCCTCCCGAAGCAGA
 GGAACACAGTCATCCTTCACATGGACAGCAAGTCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG220470 representing NM_198251
 Red=Cloning site Green=Tags(s)

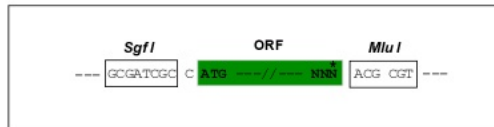
MNPLQTSTWQNQAPSWLLRFSFIWLVSQKCCTASAVWTAYMNI SFHVGNRMLSELGETGVFGRSSILKR
 VAGVVVPPEGKIQNACDPNTTFILPRNKEPWIALIERGGCAFTQKIKVASEHGARGV IYNFPGTGNQVF
 PMSHQAFEDIVVVMIGNIKAYFTFYHIRRLWVARIENRRWKRLTREKKAFGQLQVRVLKEGD EEVNPN
 DSCVICFEAYKPNEIVRILTCKHFFHKNCIDPWILAHGTCMPKCKDILKALGIQMDIEDGTDSLQVLM
 SNELPGT LSPVEEETNYELPPARTSSKVTHVQEHPTSSANAGSQPPEAEETSHPSHGQQVL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGTACGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

PmeI FseI

--- GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT

- - E E R V Stop

ACCN: NM_198251

ORF Size: 1017 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_198251.2](#), [NP_937894.1](#)

RefSeq Size: 1308 bp

RefSeq ORF: 1020 bp

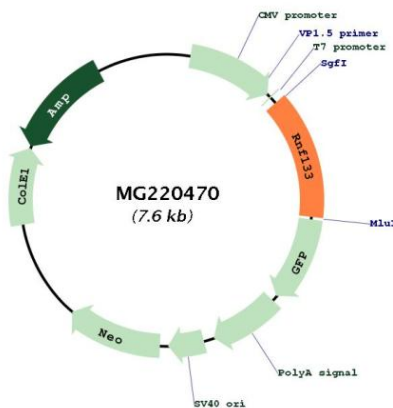
Locus ID: 386611

UniProt ID: [Q14B02](#)

Cytogenetics: 6 A3.1

Gene Summary: Has E3 ubiquitin-protein ligase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220470