

Product datasheet for **MG221153**

Rnf170 (NM_029965) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnf170 (NM_029965) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rnf170
Synonyms: 6720407G21Rik; AI481227
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221153 representing NM_029965
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAAAGATATTGGCGTTTCCAAGACAACAAGATACAAGATATATGCTTTGGAGTCCTAGGAGAATCTT
 GGATTCAAAGACCTGTAATGGCCAGGTAACAGTGAAGGTCAGAGTTGCAGCAGGATGACTCATTAT
 AGAAGGAGTGAGCGACCAAGTCTTGTGGCTGTGGTGGTCAGCTTGGCGTTGACCGCTACTCTCCTGTAT
 GCCTTCTCAGAAATGTACAGCAGAACATCCATCCAGAAAACCAGGAGCTAGTCAGAGTGCTTCGAGAAC
 AATTCAAACAGAACAGGATGTCCCTGCTCCTGCCGACAGCAGTTCTACACTGAAATGACTGTCCAAT
 CTGCTTACATCAAGCCTCTTTCTGTTGAAACAACTGTGGACATCTCTTTTGTGGTTCCTGCATAATT
 GCATACTGGCGATACGGGTCCTGGCTTGGTGAATCAGTTGTCCTATCTGTAGACAAACGGTAACTCTCC
 TCCTAACAGTATTTGGTGAAGATGATCAATCTCAGGATGTTATAAGATTGCGTCAAGATGTTAATGATTA
 TAACCGGAGATTCTCAGGGCAGCCTAGATCTATTATGAAAGGATCATGGACCTCCCCACCTTGCTGAGA
 CATGCGTTCAGGGAAGTGTCTCAGTTGGGGCCCTCTTCTGGATGTTCCGCATTAGGATAATGCTTTGTT
 TGATGGGAGCTTTTTCTATTTAATACACCTTAGATTTGTACCTGAAGCCTGTTTGGAAATCTGGG
 CTTTCTAGATGATTTCTTTGTTATCTTTTGTGCTTATTTACATCTCCATTATGTATCGAGAAGTGATA
 ACCCAAAGACTAACTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221153 representing NM_029965
 Red=Cloning site Green=Tags(s)

MQR YWRFQDNKIQD ICFGLGESWIQRPVMARYYSEGQSLQDDSFIEGVSDQVLVAVVVSALATATLLY
 ALLRNVQQNIHPENQELVRVLR EQFQTEQDVPAPARQQFYTEMYPICLHQASFPVETNCGHLFCGSCII
 AYWRYGSLWGAISCPICRQTVTLLLT VFGEDDQSQDVIRLRQDVNDYNRRFSGQPRSIMERIMDLPTLLR
 HAFREVF SVGGLFWMFRIRIMLCLMGAFFYLISPLDFVPEALFGILGFLDDFFVIFLLLIYISIMYREVI
 TQRLTR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029965

ORF Size: 858 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_029965.3](#)

RefSeq Size: 4049 bp

RefSeq ORF: 861 bp

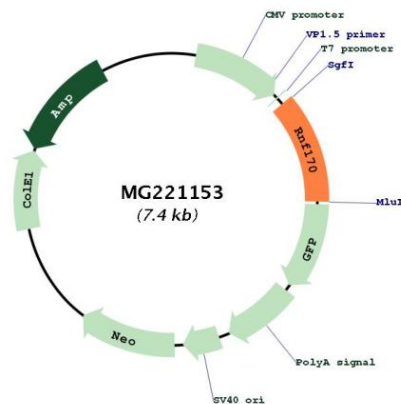
Locus ID: 77733

UniProt ID: [Q8CBG9](#)

Cytogenetics: 8 A2

Gene Summary: E3 ubiquitin-protein ligase that plays an essential role in stimulus-induced inositol 1,4,5-trisphosphate receptor type 1 (ITPR1) ubiquitination and degradation via the endoplasmic reticulum-associated degradation (ERAD) pathway. Also involved in ITPR1 turnover in resting cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221153