

Product datasheet for **MC220526**

Rnf169 (NM_175388) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf169 (NM_175388) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rnf169
Synonyms:	2900057K09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220526 representing NM_175388
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCAGGTCCGAGCACTCGGGCTTCTCCGCTGCGGCCGCGGAGCTCTGAGTCGGCGGGGCC
 GGAGGGCCGCTGTGACGAGATGGCGGCAGCGAAAGCCGGGGCTCCGGGCCCGCCCTCCAGCCCCGCGTT
 GTTAGTGTTCGGGTCAGCGCCACGGCCGGAGGAGTCGGGCTGCACCGGGTGCCTGGAGACCCCGGGGAA
 GTGGCGCCCTGCCGTGCAGCCACTCGCGGTGCCGAGGCTGCGCCTCGCGCGCGGGCCCGGGTGC
 GTCGCTGCCGTCCCCGCGTTCCGGCTGGGCCCGCGTCGGGCGCGGACGAGCCAGGCCCGCGCGGA
 GCTGATGGGCGAGCGCCCGTCTGGACAGCCAGAACCCTGCCGCCGCGCGGACGGGGCGCGGCT
 GCCTCGGGGCCAGGCCGGAGCCGCTCGCGGAGCCAGAGTTTATTAGAACGCCAATCAAGT
 TAAGCAAGCCGGGAGAACTCAGTGAGGAGTATGGATGCCTGAGAAAGCTGAGAGGGGAGAAGTTACAGGA
 AGAAAAAGATTGTGATGATCAGATACACAAGCTACTGCAGGAGGATCCGAAATGGGGAAGAGGAAAGCT
 GATGAGCAGAAAAAAGGGATGAAGCAGTGGTGCAGAAAACAAGTCTGGAGCAGTCTCCTGCGCGTCTCT
 CGGATTACAGAAATGAAGAGCCTTCTCGGGCCAGATGATGCAGACCCATCGCTCCGCTTTGTTCTAA
 GAACAGCTCCTGCTCCTTAGCGTTCCTGGCAGGGAAGTTAAACACCAAGGTGCAGAGAAGTCAGAGCTGC
 AGCGACACAGTTCAGGACAGAGTGAGGAGCAGGCTCAGAACAGCTCCGCCAACAGAGCCAAGATCACAA
 CTATAACTCCAGGCTCCACCCCAATTATTGGTGTCTCTTGTCTACTCAAACAACCGCTGCCTCTCTGC
 CCCTGACTTAACCATCGAAAAGCGCCTGCCCTTCGGCTCCCTTTCATCCTTGGCTTCCTTGATAAGCCA
 GAGCGCTCCATCAGCCCTGAAAGCAATGACAGCATCTCTGAAGAGCTAAACCACTCAAGCCCATCGTCT
 GCTCGCCATGACCCCTCCAAGAGACTCCCTGATGGCCGGGTGCTCAGTCTCTCATCATCAAGTCAAC
 CCCTCGCAACCTGACCAGAAGCCTGCAGAAGCAGACTTCATATGAGGCCAGCCCTCGCATCCTCAAGAAG
 TGGGAGCAGATCTCCAGGAGCGGCAGATCAAGAAGACCCTTTCAAAGCCACTCTCACCTCCCTGGCTC
 CTGAAGCAGGGGAAGAGTTTCCAGGTTCTGACACAATCCATTCCAGCAAGGAGAGGCCGTCTCTGGCCTT
 TAATAAAGGCTGTCCAGGGTCCAGGTGCTCTCCGAGTGTGCTGGGCCACCTCCACTGCCCTTGAAGTGC
 TTCCCTCTGTTAACAGACCAAGTAGAACAGGACTGTGTTAGAAAACGGAGCCGTGAGTTCTCACTGG
 AAACCTGCCATTCTCGGAGCACGGAGGAGCCTCCAGTGGCCTTCTCTGGAACGGGAGCAGTGTGAGGA
 GTCAGGGTCCACCGTGGACGCCACATTAGTCAAACTTGCATAAGCACAGTCATGAAGACTGCAGCGGTT
 AATTCAGTCTACCCAAAATGATGTTTTGGTGGGGCTCAAACAACAACAACACTGAAGACTCA
 ATCATTTTGATCTGGGTAAATGGCATTCTGGTCAACAGCCTAGGAGAGGAGCCGATTCCTTCCCTGCGCAG
 AGGCCGAAAAAGCGCTGTAAGACCAAGCACTTGAACAAAACGGTGTAAAAAACTGCGACCACCGAGC
 AGTGACATGGATCTGGCCCCAAGGACCCAGGGCTGCTTGAAGTGGGGCGGAAATTCAGCAGGAGGAAG
 AGGACCAGCAGCTGGCTCTGCAGTCACATCGCATGTTTGACAGTGAAGGCGGACTATGAGCCGGCGAAA
 AGGAAGCGTAGATCAGTATCTCTTGAAGTCCAGCAGCTTGGCTGGGGCCAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_175388
- Insert Size:** 2085 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_175388.3](#), [NP_780597.2](#)

RefSeq Size: 7157 bp

RefSeq ORF: 2085 bp

Locus ID: 108937

UniProt ID: [E9Q7F2](#)

Cytogenetics: 7 E2

Gene Summary: Probable E3 ubiquitin-protein ligase that acts as a negative regulator of double-strand breaks (DSBs) repair following DNA damage. Recruited to DSB repair sites by recognizing and binding ubiquitin catalyzed by RNF168 and competes with TP53BP1 and BRCA1 for association with RNF168-modified chromatin, thereby acting as a negative regulator of DSBs repair. E3 ubiquitin-protein ligase activity is not required for regulation of DSBs repair. [UniProtKB/Swiss-Prot Function]