

## Product datasheet for **MC223108**

### Rnf123 (BC057082) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Rnf123 (BC057082) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Rnf123  
 Synonyms: BC003945; Kpc1  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >BC057082  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGTCCAAGGGGACTGGCATGTCGTTCTCCGAAAGAGCTATAGGCTGACCTCAGATGCTGAGAAGT  
 CCAGGGTCACAGGCATCGTGCAAGAGAACTACTGAGCGACTATCTGTACCGCATCTTTCCCTCTCTGA  
 CCGTGGACCCCGCAGCCACCAGCAGGAAACCGCTAACTTCCATAACCTGCCTGAGCAGTGGACCAG  
 CTGCTACAGGTGGACAGTGAAGACAACGAGAGCCAGGGACAAGTTGAAGTTCGACTTGGCCCATCTACTG  
 TGGTCCTAGACCACAGGAGGCTTTGAGGGGCTTCTCCTTGTGGATGATGACCTCCTGGGGGTGATTGG  
 ACACAGCAACTTTGGCACTATCCGTTTACCACATGTGTGTACAAAGGGAAGTGGGTCTACGAGGTGCTC  
 ATCTCCTCCCAGGGCCTCATGCAGATCGGCTGGTGCACCACTCACTGCCGCTTAAATCAGGAGGAAGGGG  
 TTGGAGACACACATAACTCCTATGCCTATGACGGCAACCGAGTGCAGTGAAGTGAATGTTACCACCACGAA  
 TTATGGCAAGGCGTGGGCTGCGGGGACATTGTCAGCTGCCTAATTGATCTGGATGATGGGACTCTGTCC  
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 TCCCAGCCATCAGCCTGTCAATCAAGGAGTCTGTGGCATTCAACTTTGGCAGCCGCTCTTGGCGTACCC  
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 TGCTTCCAGGCAGTGCTAAGTGTGGAGCTGGACCCTGTGGAAGGGCGGCTGGTGGAGACGGAGAGCTCTG  
 AGTGGCAGCTGCAAGGGCAGCCACTGTCTCCTCACGCTGGCCACATCTTCCATCACTTTGCACCACT  
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 CCAGAGCAGGCGCAGTCTGTGGTACACCAGATCTTGGACCTCTTGTGGCTCTTATGAGGACTATGAGG  
 TACAGGATTGCCTGAAGCAGTTGATGATGTCACCTTCTACGTCTCTACCGATTCTCGCCTATTGTCCCAGA  
 CCTGGGCTACAGATCCACTACCTGCGCCTCACTATGTCCATCCTGAGACAGAGAAGTCCCAGGATTC  
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 AGACGGTAAGGAAGCAAGGGAGGAGACCACCGAAGAGCGGCAGCGGAGGCGAGCCTATGAGCGTGGCTGC  
 CAAAGACTCAAGAAACGCATTGAAGTGGTGAAGAACTGCAGGTCAGATCCTGAAGCTGCTGTTGGACA



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ATAAAGATGACAATGGGGTGAAGCTTCTAGGTACATCTTTCTGACAAAATCCGAAAGTTCCTGCAGGA  
 GAATGCCAGCGGCCGGGGAAACACACCCGTGCTCTGCCCCCTGAGTACATGGTCTGCTTCTACACCGG  
 CTGGTGTCTGCCTTGGCCTTCTATTGGGATGAATACAAAGCTTCCAACCCCGTCTTCTTCAAGTGGG  
 AGGCTTACATCCCGCCAGATCTTCTATAATGGCAAGGTGGACTACTTTGACCTTCAGCGCCTTGGGG  
 CCTCTCTCACACCTCGAAAGACCTTAAAGTACCTTGCTTCCAAAGCCAACATCGTGATCGACCCC  
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 AGGACATTGAGGGCAGCCACTGGAATGAGGGCCTGCTGTTGGGGAGGCCCTGAAGAGCCTGAGCAGCC  
 GCTTACCAGAACTCGCTGTTGGAAGTCTGGATGGCACAGTATGATGTATAACCTCAGCGTTCACCAG  
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 ACAAGCTCCGTCGGTGCCTAAGAGGAGGAAGGATATCCTTGAGAGTTGACCAAGAGCCAGAAGTTTT  
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 TCTTGCCTTATGCCTGAGTTCTACCTAAGTGTGGCTATCAACAGCTACAGTGCCTGAAGAACTATT  
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 GCCAAACTTTTGTGACCCCTCGAATAGTAGGCACTGATATTCGAGACTCACTGATGCAGGCCCTGGCCA  
 GCTATGTGTGCTACCCACTCCCTGCGGGCTGTGGAACGGATTCTGAGGAACAGCGCATCGCCATGGT  
 GAGGAACCTTTTGGCACCTATGAGCAACGGCCCTGGGCCAGACCAACTGGATCCTGGTGGCCTTTGG  
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 ATTTGCCAGCCTCCAAAAGCCCTGCCCTTCCACTTGTACAGCAGCACATGGCGGACCTGCTGCGACA  
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 TCAAGGTCTGTGCCACCTGCTTTGACCTGTGCGTCAAGTGTGTTGCGCGTCTTGGAAATGACCATCAGCT  
 GGTACCTGAAATATTCTTACTGGTCCCGCCCTACCTCTGAGATGCTGCTTCCGCGTCTGGCACAGCTG  
 CTGAACCAGGTGCTGAACCGGTGACAGCTGAGAGGAACCTGTTGACCGTGTAGTTACCCTACGGCTAC  
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 GCACGGCCCAACCTCAGAGACAGAGCAAGCCACCTCTGTGCTCCTGGCTGATCCCTGCTTCCAGCTTCGT  
 TCCATATGCTATCTCCTGGGCAGCCAGAGCCCTAGCACCTGGCACTACCTGCTGCCCTGACCGGA  
 AACGCTTCTCTACAGAGTTATACAGATTATATCAGCGCTGAGGAGCTGGCCAGGTGGAACAGATGCT  
 GGCTCACCTGACCGCTGCATCTGCCAGGCGGCCGCCCTCCCTGCCCAATGAAGAGGACCTCTGC  
 CCAATCTGCTACGCCACCCATCTCTGCTGTGTTCCAGCCTTGTGGTCAAAATCCTGCAAAGCCTGCA  
 TCAACCAGCACCTGATGAACAACAAGGACTGCTTCTTCTGCAAAGCCACCATTGTATCTGTAGAGGACTG  
 GGACAAGGCAGCAACACAAGCGCCATGTCCTCAGCTGCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** BC057082
- Insert Size:** 3963 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:** [BC057082](#), [AAH57082](#)

**RefSeq Size:** 4745 bp

**RefSeq ORF:** 3962 bp

**Locus ID:** 84585

**Cytogenetics:** 9 F1

**Gene Summary:** Catalytic subunit of the KPC complex that acts as E3 ubiquitin-protein ligase. Required for poly-ubiquitination and proteasome-mediated degradation of CDKN1B during G1 phase of the cell cycle.[UniProtKB/Swiss-Prot Function]