

## Product datasheet for **MC222917**

### **Rnf20 (NM\_182999) Mouse Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | Rnf20 (NM_182999) Mouse Untagged Clone     |
| Tag:                      | Tag Free                                   |
| Symbol:                   | Rnf20                                      |
| Synonyms:                 | 4833430L21Rik; AW540162; C79397; mKIAA4116 |
| Mammalian Cell Selection: | Neomycin                                   |
| Vector:                   | pCMV6-Entry (PS100001)                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                       |



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**Fully Sequenced ORF:** >MC222917 representing NM\_182999  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAGGAATTGAAATAAAAGAGCAGCTGGAGAGCCGGGCACATCTATGCCTCCAGAGAAGAAGACAG  
 CTGTTGAAGATTCAGGGACCACCGTGGAAACAATTAAGTTAGGAGGTGTCTTCAACGGAGGAATTAGA  
 CATTGCAACTGCAATCCAAGAATCGTAACTAGCAGAAATGCTAGATCAGCGGACGGCCATTGAAGAT  
 GAGCTTCGGGAACACATTGAAAAGCTGGAGCGACGCCAGGCCACTGATGATGCCTCACTGTTGATTGTGA  
 ACCGGTACTGGAGCCAGTTTGTGAAAACATCCGCATCATCCTTAAACGTTATGATCTGGACCAGGGTTT  
 GGGGGACCTACTCACAGAAAGGAAAGCCTTGGTTGTGCCAGAACCAGAACCTGACTCTGATAGCAATCAG  
 GAACGCAAAGATACCGTGAAGAGGGGATGGCAAGAGCCAGCTTCTCTTTCCTTGTACTTTGGCTA  
 GCAGTTCCAGTGAAGAGATGGAATCTCAGCTTCAGGAGCGTGTAGAGTCTCCCGCGTGTGTGTCCCA  
 GATTGTGACTGTCTATGATAAATTGCAAGAAAAAGTGGATCTCTTATCCCGGAAACTGAACAGTGGAGAT  
 AACCTGATAGTGGAGGAAGCAGTGCAGGAGTTGAACTCCTTCTTGCACAAGAGAATGTGAGGCTTCAGG  
 AGCTGACAGACCTCCTTCAGGAGAAGCATCACACCATGTCTCAGGAGTTCTGTAAGTTGCAGGGTAAAGT  
 AGAGACAGCTGAGTCACGAGTGTCCGCTTGGAGTCCATGATTGATGACCTGCAGTGGGATATTGACAAA  
 ATTCGAAAAGAGAACAGCGTCTCAACCGGCATTTGGCTGAAGTCTAGAGCGGGTGAATTCAAAAGGCT  
 AATAAGTATATGGAGCGGGGAGCAGTCTCTATGGAGGCACAATCACCATCAATGCCCGGAAGTTTGAAGG  
 AATGAATGCAGAGCTTGAAGGAGAACAAAGAGTTGGCTCAGAACCAGCATTGTGAGCTGGAGAAGCTTCG  
 CAAGACTTGAAGAGGTCACTACACAGAATGAAAAGTTGAAGTGAATTCGGGAGTGCAGTGGAGGAAG  
 TGGTTAAGGAAACCCAGAGTATCGCTGCATGCAGTGCAGTCTCTGTCTGTATAACGAGAGCTGCA  
 GTTGAAGGCCACTTGGATGAAGCTCGGACCTGCTTTCATGGCACCCGGGTACTACCAGCGCCAGGTT  
 GAACTCATTGAGCGAGATGAGGTTAGTCTGCATAGAAGCTGAGAAGTGAAGTCAATTCAGCTGGAGGATA  
 CCTTGGCCAGGTTGCAAGGAGTATGAGATGTTGAGGATAGAGTTTGAAGCAGACCTTGTGCCAAATGA  
 ACAAGCAGGCCCATAAACCGGAGATGCGGCATCTCATTAGCAGCCTCCAGAATCATAACCACAGCTG  
 AAGGTTGAAGTCTAAGGTATAAACGGAAGCTGAGAGAGGCGCAGTCTGACCTGAACAAGACAGCTCTGC  
 GCAGTGGCAGTGCCTCCTGCAGTCTCAGTCTAGTACTGAGGACCCCAAGGACGAGCCACAGAGCTGAA  
 GCAGGATCTGAAGACCTAGCCACTCATTCTCAGCGCTGAAGGCATCTCAGGAGGATGAAGTTAAGTCC  
 AAACGGGATGAAGAAGAGAGAGAACGAGAAAGGAGGGAGAAAGAAAGAGAGCGAGAGCGAGAACGAGAAA  
 AGGAAAAGGAGAGAGAACGAGAGAAACAGAAAAGTAAAAGAGTCAAGAAAGGAGAGAGATTCTGTTAAGGA  
 TAAAGAGAAAGGAAACATGATGATGGAAGGAAGAAGGAAGCAGAAATTATCAAGCAGCTGAAGATTGAA  
 CTTAAGAAAGCACAAGAGAGCCAGAAGGAGATGAAACTACTGCTGGATATGTACCCTCTGCCCAAGG  
 AGCAGAGAGACAAAGTGCAGCTAATGGCAGCTGAGAAGAAGTCAAAGGCAGAGTTGGAGGATCTCAGACA  
 AAGACTCAAGGATCTGGAAGATAAAGGAGAAGAAAGAGAACAAGAAAATGGCTGATGAGGATGCCTTGAGG  
 AAGATCCGGGCAGTGGAGGAGCAGATTGAATACCTGCAGAAGAAGCTGGCTATGGCCAAGCAGGAGGAAG  
 AGGCTCTCCTGTCTGAGATGGATGTACAGGACAGGCCCTTGGAGACATGCAGGAGCAGAACATCCGCTC  
 GATGCAGCAGTTGCGGGAGAAGGACGATGCAAACTTCAAGCTCATGTGAGAGCGAATCAAGTCTAATCAG  
 ATCCATAAGTTGCTTAAAGAGGAAAAGGAAGGTTAGCTGATCAGGTTTTGACACTGAAGACTCAGGTAG  
 ATGCCAGTTACAGGTAGTAAGAAAAGTGAAGAGAAGGAGCACCTACTTCAAGTAAACATTGGCACAGG  
 GGAGAAGGAGCTGGGCTTAGGACTCAAGCCTTGGAGATGAATAAACGCAAGGCAATGGAGGCGGCCAG  
 CTTGCAGATGACCTCAAAGCACAGCTAGAAGTGGCTCAGAAGAAGCTCCATGATTTCCAGGATGAAATCG  
 TGGAGAACAGTGTACCAAAGAAAAGGACTTGTTCATTTCAAACGAGCACAGGAAGACATCTTAGGCT  
 TCGAAGAAAGCTAGAGACCACCAAGAAGCCAGACAATGTGCCAAGTGTGATGAAATCTGATGGAGGAG  
 AATAAGGACTACAAGGCAGGCTGACCTGCCCTTGTGTAAACATGCGTAAAAGGATGCAGTACTTACCA  
 AGTGTTCACGTTTTCTGCTTTGAGTGTGTAAGACGCGCTATGACACTCGCCAGCGCAAGTGTCCCAA  
 GTGTAATGCTGCTTTTGGTGCCAATGATTTCCATCGCATCTACATTGGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                               |   |
|-------------------------------|---|
| <b>Restriction Sites:</b>     | Sgfl-Mlul   |
| <b>ACCN:</b>                  | NM_182999   |
| <b>Insert Size:</b>           | 2922 bp   |
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <u><a href="#">NM_182999.2</a></u> , <u><a href="#">NP_892044.1</a></u>   |
| <b>RefSeq Size:</b>           | 4159 bp   |
| <b>RefSeq ORF:</b>            | 2922 bp   |
| <b>Locus ID:</b>              | 109331  |
| <b>UniProt ID:</b>            | <u><a href="#">Q5DTM8</a></u>   |
| <b>Cytogenetics:</b>          | 4 B1  |
| <b>Gene Summary:</b>          | <p>Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role in histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B; reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes. Recruited to the MDM2 promoter, probably by being recruited by p53/TP53, and thereby acts as a transcriptional coactivator. Mediates the polyubiquitination of PA2G4 leading to its proteasome-mediated degradation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks a segment in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.</p> |