

## Product datasheet for **MC200929**

### Uhrf1 (NM\_010931) Mouse Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Uhrf1 (NM_010931) Mouse Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | Uhrf1                                  |
| Synonyms:                 | AL022808; ICBP90; Np95; RNF106         |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)                |
| E. coli Selection:        | Kanamycin (25 ug/mL)                   |

**Fully Sequenced ORF:** >BC022167 sequence for NM\_010931  
 CCACGCGTCCGCTGGAAGGAACCCGCGCTCTAGTGCTCACTTGGGTCTTCAGCCACTCACGCGGCTCCCT  
 TCTGGGTACCCAGCCGAGAGCCCTAGCCTAGAACCAGCGGTTCCAAGGGAGAGAGAGTGC GGATCGC  
 CGCCGAGAGAGAGTACATCGGCATCATGTGGATCCAGGTTTCGAACTATGGATGGGAAGGAGACCCACACC  
 GTGAACTCTGTCCAGGTTGACCAAGGTGCAGGAGCTGAGGAAAAAGATTGAGGAAGTGTTCACGTGG  
 AACCCCAACTGCAGAGACTCTTTTACAGGGGCAACAGATGGAGGACGGCCACACACTCTTCGATTATGA  
 TGTGCGCCTCAATGACACAATCCAGCTGCTCGTGCCAGAGTCTGGCACTGCCTCTCAGTACAAAAAGAA  
 CGGGACTCGGAGCTCTCAGACTCGGACTCTGGCTATGGTGTGGGTACAGTGAATCAGACAAGTCCGTTCA  
 CGCATGGTGAAGGGCAGCTGAAGCGGATGACAAGACTGTGTGGGAGGACACGGACCTGGGGCTGTACAA  
 GGTCAATGAGTATGTGGACGTGCGTGACAATATCTTCGGTGCATGGTTTGAGGCCAGGTGGTCCAGGTA  
 CAGAAGAGAGCCCTATCTGAGGACGAGCCCTGTAGCTCCAGTGGCGTTAAGACCTCGGAGGATGACATCA  
 TGTACCATGTCAAGTATGATGACTATCCAGAGCATGGAGTGGACATTGTCAAAGCCAAGAATGTCCGTGC  
 TCGTGCTCGCACTGTGATACCATGGGAGAACCTGGAGGTGGGTCAAGTGGTTCATGGCCAACATAACGTG  
 GACTACCCAGGAAACGCGGCTTCTGGTATGATGTTGAGATCTGTAGGAAGCGCCAAACCAGGACGGCAC  
 GTGAGCTATACGGCAACATCAGGCTCTTGAATGACTCTCAGCTCAACACTGTCCGATCATGTTTGTGGA  
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 GCCCTCCGGAACACAGGGAAGAGCGGCCATCCTGCCGTTCTGCAAGGATGATGAAAACAAACCATGTC  
 GAAAGTGTGCCTGCCACGTGTGTGGTGGCGCGAGGCTCCTGAGAAACAGCTGTTGTGTGATGAGTGTGA  
 CATGGCCTTCCACTGTACTGCCTGAAGCCACCGCTCACCTCTGTCCCCCTGAGCCGGAGTGGTACTGC  
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 CGAAGATGGCATCAGCCACTTCCCTCCTCCCGGGGACTGGGGCAAGGGCATGGCATGTGTGGGCCGCAC  
 CACAGAGTGTACCATTGTGCCGCCAACCACTTCGGGCCATCCCTGGTGTCCCTGTGGGCACCATGTGG  
 CGCTTCAGAGTCCAGGTGAGTGTGAGTCCGGTGTGCATCGGCCTCATGTGGCAGGCATCCATGGCCGGAGCA  
 ACGACGGTGCCTACTCATTGGTCTGGTGGTGGCTATGAGGATGATGTGGACAATGGCAATTACTTAC  
 ATACACAGGGAGTGGTGGCCGAGACCTCTGGCAACAAGCGTACAGCAGGCCAGTCTCTGACCAGAAG  
 CTCCTAATAACAATAGGGCTCTGGCACTCAATTGCCACTCCCCAATCAATGAGAAAGGTGCGGAGGCTG  
 AAGACTGGCGCAAGGGAAGCCAGTGCCTGTGGTCCGGAACATGAAGGGCGGAAACACAGCAAGTACCG



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TCCTGCAGAGGGCAACCGCTATGATGGCATCTACAAGGTGGTGAAGTACTGGCCAGAGAGAGGAAATCT
GGCTTCCTCGTGTGGCGTTATCTCCTTCGACGAGATGACACAGAGCCTGAGCCCTGGACCCGGGAGGGCA
AGGACCGCACTCGACAGCTGGGGCTCACTATGCAGTACCCTGAAGGCTACTTGGAGGCCTTGGCTAACAA
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AAGCAGAAGTCCACAGGGCCGACCCTCTCCAGCCCCGTGCCTCTAAGAAGAGCAAGCTGGAGCCGTACA
CACTCTCAGAGCAGCAGGCTAACCTCATCAAAGAGGACAAGGGCAACGCCAAGCTGTGGGATGATGTGCT
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CAGTTGGACTTCTGTTTTTCATCCCTCCACCCCTTTCTATAACAAAGCCTGCGATTTATTGTCCAAGAG
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TGTCTCATGAAACTGAACCATTTACTACAGGCAGACTGGACAGCAGACTTCTAAGGGTTGTGTTTTGTT
TTGTGTGGGTATTTTTCTTGTAGATTGTTAACATATTGCAATAAAATAAAATCTGGCCGGGCAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_010931
- Insert Size:** 2349 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:** [BC022167](#), [AAH22167](#)
- RefSeq Size:** 3555 bp
- RefSeq ORF:** 2349 bp

Locus ID: 18140

UniProt ID: [Q8VDF2](#)

Cytogenetics: 17 D

**Gene Summary:** Multidomain protein that acts as a key epigenetic regulator by bridging DNA methylation and chromatin modification. Specifically recognizes and binds hemimethylated DNA at replication forks via its YDG domain and recruits DNMT1 methyltransferase to ensure faithful propagation of the DNA methylation patterns through DNA replication. In addition to its role in maintenance of DNA methylation, also plays a key role in chromatin modification: through its tudor-like regions and PHD-type zinc fingers, specifically recognizes and binds histone H3 trimethylated at 'Lys-9' (H3K9me3) and unmethylated at 'Arg-2' (H3R2me0), respectively, and recruits chromatin proteins. Enriched in pericentric heterochromatin where it recruits different chromatin modifiers required for this chromatin replication. Also localizes to euchromatic regions where it negatively regulates transcription possibly by impacting DNA methylation and histone modifications. Has E3 ubiquitin-protein ligase activity by mediating the ubiquitination of target proteins such as histone H3 and PML. It is still unclear how E3 ubiquitin-protein ligase activity is related to its role in chromatin in vivo. May be involved in DNA repair.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (A). Variants 1 and 2 encode isoform (A).