

Product datasheet for **RN214841**

Uhrf1 (NM_001008882) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uhrf1 (NM_001008882) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Uhrf1
Synonyms:	Ac2-121; Np95
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214841 representing NM_001008882
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCAGGAATCTTTGGCGAGGGAGGATCCCTTCTCCTCTCCCGTATTGCTACGGGTTTACAAG
 ACCTGGGCCTTCTTGGTAACTAGATATAGCCCGCAGGGCCACACTGACTGGGATCTCCCTCTGTTTTTC
 AGTATTCCTTCAGCACATCGGCATCATGTGGATCCAGGTTCAACTATGGATGGGAAGGAGACCCACACC
 GTGAACCTCTATCCCGTTGACCAAGGTGCAGGAGCTGAGGAAAAAGATTGAGGAGCTGTTTCACGTGG
 AACCCCAATTGCAGAGACTCTTTACAGGGGCAACAGATGGAGGATGGTCACACACTCTTCGATTATGA
 CGTGCGCCTCAATGACACAATCCAGCTGCTGGTGCAGAGTCTGGCCCTACCTCTCAGTACGAAAAGAA
 CGGGACTCGGAGCTCTCAGACTCTGACTCTGGCTATGGTGTGGGTACAGTGAATCAGACAAGTCGTCCA
 CGCATGGTGAAGGACAGCTGATGGGGATGACAAGACTGTGTGGGAGGACTGACCTAGGACTGTACAA
 GGTTAATGAGTACGTGGACGTGCGTGACAATATCTTTGGTGCATGGTTTGAGGCCAGGTGGTCCAGGTA
 CAGAAGAAAGCCCTATCTGAGGAAGAGCCCTGTAGCTCCAGTGCCATTATGGCCCAAGAGGATGACATCA
 TGTACCACATCAAGTATGATGACTATCCAGAGCATGGAGTGGACATTGTCAAAGCCAAGAATGTCGGTGC
 TCGCGCTCGCACTGTGATCCCCTGGGAGGACCTGGAGGTGGGTACAGTGGTTCATGGCCAACCTACAACGTG
 GACTATCCAGAAAACGTGGCTTCTGGTATGATGTTGAGATTTGTAGGAAGCGCCAAACCAGGACGGCAC
 GTGAACTGTATGGCAACGTATGCTTTTGAATGATTCTCAGCTCAACACTGTCCGATCATATTTGTGGA
 TGAAGTCTTGAAGATTGAGCTCCCTAATGAGAGGAGCCCTTGATTGGTAGCCCTCGAGACGGAAGAGC
 GGCCCATCCTGCCAGTACTGCAAGGATGACGAGAACAACCGTGTGCAAGTGTGCCTGCCATATTTGTG
 GTGGCGGTGAGGCTCCCGAGAAAACAAGTGTGTGTGATGAGTGTGACATGGCCTCCACCTGTACTG
 GCAGCCACCGCTCACCTGTGTCCCCCTGAGCCAGAGTGGTACTGCCCCAGCTGCCGAAGTACTCCAGT
 GAGGTGGTACAAGCAGGGGAGAACTGAAGAAAAGCAAGAAGAAGGCAAAGATGGCGTACGCCACTTCTCT
 CCTCCCGACGGGACTGGGGCAAGGGCATGGCATGTGTGGGCCGACACAGAGTGTACTATTGTACCGGC
 CAACCACTTCGGGCCATCCCTGGTGTCCCCGTGGGCACCATGTGGCGTTCAGAGTCCAGGTGAGTGA
 TCCGGTGTGCATCGGCCACATGTGGCGGTATTTCATGGTTCGAGCAACGACGGTGCCTACTACTGGTGC
 TGGCTGGTGGCTATGAGGATGATGTGGATAATGGCAATTTCTTACCTACACGGGACAGTGGTGGCCGAGA
 CCTCTCTGGCAACAAGCGTACAGCGGGACAGTCCCTCTGACCAGAACTACTAATAACAACAGGGCTCTG
 GCGCTCAATTGCCACTCCCAATCAATGAGAAAGGTGCGGAGGCTGAAGACTGGCGCCAGGGTAAGCCGG
 TCGGTGTGGTCCGGAACATGAAGGGAGGCAACATAGCAAGTACGCACCTGCAGAGGGGAACCGCTATGA
 TGGCATCTACAAGGTGGTCAAGTACTGGCCGGAGAAGGGGAAATCTGGCTTCATTGTGTGGCGCTATCTC
 TTTCGACGGGATGACTGAACCTGAGCCGTGGACTCGGGAGGGCAAGGACCGCACTCGGCAGCTGGGCC
 TCACTATGCAGTATCCTGAAGGCTACTTGGAGGCTTGGCTAACAAAGGAGAAGAACAGGAAGCGCCCGGC
 CAAGGCCCTGGAGCAGGGACCATCATCTTCAAGATAGGCAAAAGCAAGCGGAAGTCCACAGGCCCGGCC
 ACCACAAGCCCCGTGTCTCCAAGAAGCAAGCTGGAGCCCTACACACTTCCATTGCAGCAGGCCAACC
 TCATCAAGGAGGACAAGGGCAACGCCAAGCTGTGGGATGACGTGCTGAGTCCCTTCAGGATGGCCGTA
 CCAGATCTTCTGAGCAAGGTGAAGGAGGCTTTCAGTGCATCTGTTGCCAGGAGTTGGTGTCCGGCCA
 GTCACCACCGTGTGTGAGCACAACGTTTGAAGGACTGCCTGGACAGGTCCCTTCGGTCCCGAGGTGTTCA
 GCTGCCACGATGTGCTATGACCTGGACCACAGTCCCCAACCCGAGTGAATCAGCCCTTGCAGACCAT
 TCTCAACCAGCTCTTCCCTGGCTATGGCAGCGGCCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001008882
Insert Size: 2490 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:	<ol style="list-style-type: none">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_001008882.1 , NP_001008882.1
RefSeq Size:	2536 bp
RefSeq ORF:	2490 bp
Locus ID:	316129
UniProt ID:	Q7TPK1
Cytogenetics:	9q12
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 (By similarity).[UniProtKB/Swiss-Prot Function]