

Product datasheet for **MR210622**

Uhrf1 (NM_001111078) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uhrf1 (NM_001111078) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uhrf1
Synonyms:	AL022808; ICBP90; Np95; RNF106
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210622 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGATCCAGTTTCGAACTATGGATGGGAAGGAGACCCACACCGTGAACCTCTCTGTCCAGTTGACCA
 AGGTGCAGGAGCTGAGGAAAAAGATTGAGGAAGTGTTCACGTGGAACCCCAACTACAGAGACTCTTTTA
 TAGGGGCAAACAGATGGAGGATGGCCACACACTCTTCGATTATGATGTGCGCCTCAATGACACAATCCAG
 CTGCTCGTGCAGAGTCTGGCACTGCCTCTCAGTACAAAAGAACGGGACTCGGAGCTCTCAGACTCTG
 ACTCTGGCTATGGTGTGGTGCACAGTGAATCAGACAAGTCGTCCACGCATGGTGAAGGGGACGTGAAGC
 GGATGACAAGACTGTGTGGGAGGACACGGACCTGGGGCTGTACAAGGTCAATGAGTATGTGGACGTGCGT
 GACAATATCTTCGGTGCATGGTTTGAGGCCAGGTGGTCCAGGTACAGAAGAGAGCCCTATCTGAGGACG
 AGCCCTGTAGCTCCAGTCCGTTAAGACCTCGGAGGATGACATCATGTACCATGTCAAGTATGATGACTA
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 GAGAACCTGGAGGTGGTTCAGGTGGTTCATGGCCAACTATAACGTGGACTACCCAGGAAACGCGGCTTCT
 GGTATGATGTTGAGATCTGTAGGAAGCGCCAAACCAGGACGGCACGTGAGCTATACGGCAACATCAGGCT
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 CATCAAAGAGGACAAGGGCAACGCCAAGCTGTGGGATGATGTGCTAACTTCACTTCCAGGATGGGCCGTAC
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 CTAACCAGCTCTTCCCTGGCTATGGCAGCGGCCGG

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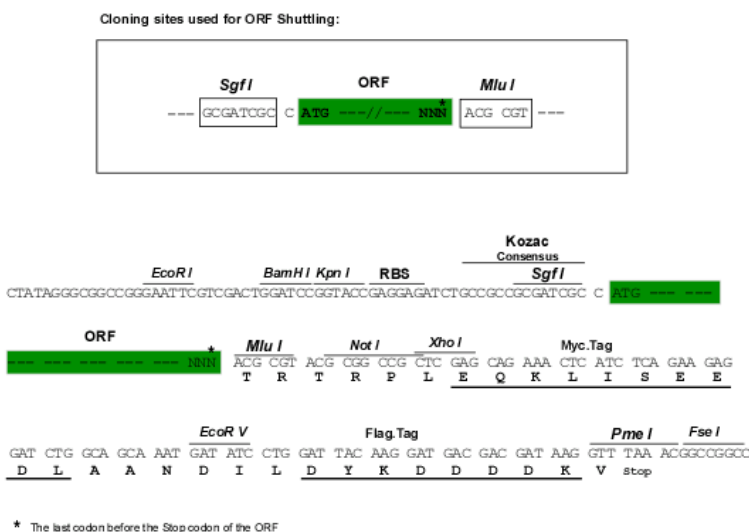
Protein Sequence: >MR210622 protein sequence
Red=Cloning site Green=Tags(s)

MWIVRTMDGKETHTVNSLSRLTKVQELRKKIEEVFHVEPQLQRLFYRGKQMEDGHTLFDYDVRNLNDTIQ
LLVVRQSLALPLSTKERDSELSDSDSGYGVGHSESDKSSTHGEGAAEADDKTVWEDTDLGLYKVNEYVDVR
DNIFGAWFEAQVVQVQKRALSEDEPCSSSAVKTSEDDIMYHVKYDDYPEHGVDIVKAKNVRARARTVIPW
ENLEVGQVVMANYNVDYPRKRGFWYDVEICRKRQTRTARELYGNIIRLLNDSQLNCRIMFVDEVLMIELP
KERRPLIASPSQPPPALRNTGKSGPSCRFCKDDENKPCRKCACHVCGGREAPEKQLLCDECDMAFHLYCL
KPPLTSVPPEPEWYPCSCRTDSSEVVQAGEKLKESKKKAKMASATSSRRDWGKGMACVGRITTECTIVPA
NHFGPIPGVPGTMWRFRVQVSESGVHRPHVAGIHGRSNDGAYSLVLAGGYEDDNDNGNYFTYTGS GGRD
LSGNKRTAGQSSDQKL TNNRRLALNCHSPINEKGAEEDWRQGKPVVRVVRNMKGKHSKYAPAEGNRYD
GIYKVVKYWPERGKSGFLVWRYLLRRDDEPEPWTREGKDRTRQLGLTMQYPEGYLEALANKEKSRKRPA
KALEQGPSSSKTGKSKQKSTGPTLSSPRASKKSKLEPYTLSEQQANLIKEDKGNAKLWDDVLTSLQDGPY
QIFLSKVKEAFQICCCQELVFRPVTTVCQHNVCCKDCLDRSFRAQVFSCPACRFELDHSSPTRVNQPLQTI
LNQLFPGYGSGR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001111078

ORF Size: 2346 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001111078.1](#), [NP_001104548.1](#)

RefSeq Size: 3439 bp

RefSeq ORF: 2349 bp

Locus ID: 18140

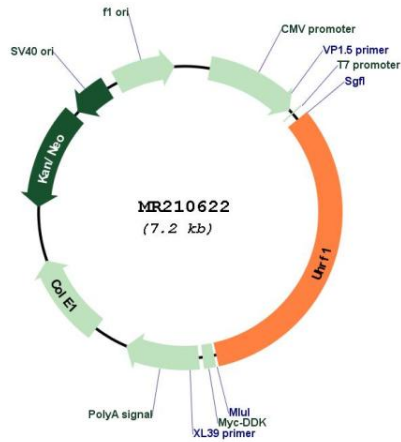
UniProt ID: [Q8VDF2](#)

Cytogenetics: 17 D

MW: 88.3 kDa

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]

Product images:



Circular map for MR210622