

Product datasheet for **RC239577**

UHRF1 (NM_001290051) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UHRF1 (NM_001290051) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UHRF1
Synonyms:	hNP95; hUHRF1; huNp95; ICBP90; Np95; RNF106; TDRD22
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239577 representing NM_001290051
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGGATCCAGTTTCGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGTGTCCAGGCTGACCA
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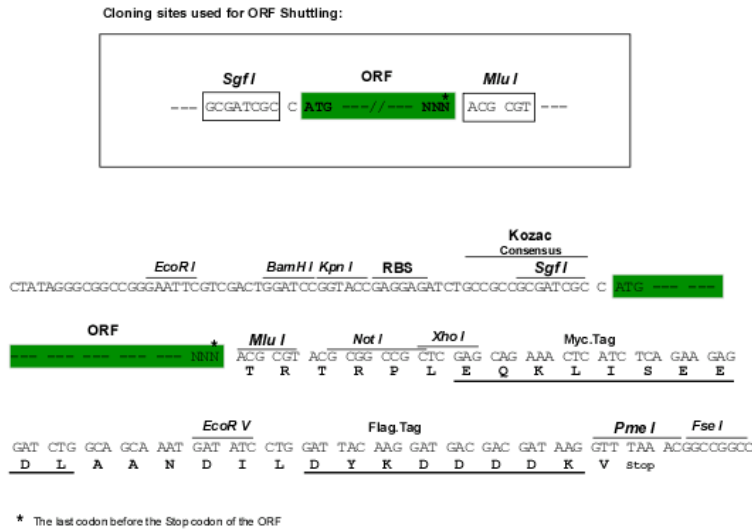
Protein Sequence: >RC239577 representing NM_001290051
 Red=Cloning site Green=Tags(s)

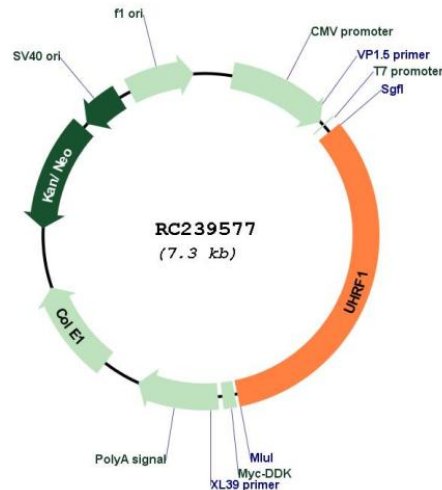
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 VDARDTNMGAWFEAQVVRVTRKAPSRDEPCSSSRPALEEDVIYHVKYDDYPENGVVQMNSRDVRAART
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 RTAEQSCDQKL TNTNRALALNCFAPINDQEGAEAKDWRSGKPVVRVNRVKGKNSKYAPAEGNRYDGIYK
 VVKYWPEKKGSGFLVWRVLLRRDDDEPGPWTKEGKDRIKLLGLTMQYPEGYLEALANREREKENSREEE
 EQQEGGFASPRTGKGKWRKSAGGGPSRAGSPRRTSKTKVEPYSLTAQQSSLIREDKSNAKLWNEVLAS
 LKDRPASGSPFLFLSKVEETFQICCCQELVFRPITTVQCQHNVCCKDLDRSFRAQVFSACPACRYDLGRSY
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001290051

ORF Size: 2379 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_001290051.2](#)

RefSeq Size: 3927 bp

RefSeq ORF: 2382 bp

Locus ID: 29128

UniProt ID: [Q96T88](#)

Cytogenetics: 19p13.3

Protein Families: Druggable Genome, Transcription Factors

MW: 90.3 kDa

Gene Summary: This gene encodes a member of a subfamily of RING-finger type E3 ubiquitin ligases. The protein binds to specific DNA sequences, and recruits a histone deacetylase to regulate gene expression. Its expression peaks at late G1 phase and continues during G2 and M phases of the cell cycle. It plays a major role in the G1/S transition by regulating topoisomerase IIalpha and retinoblastoma gene expression, and functions in the p53-dependent DNA damage checkpoint. It is regarded as a hub protein for the integration of epigenetic information. This gene is up-regulated in various cancers, and it is therefore considered to be a therapeutic target. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene exists on chromosome 12. [provided by RefSeq, Feb 2014]