

## Product datasheet for **RG239576**

### **UHRF1 (NM\_001290050) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	UHRF1 (NM_001290050) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UHRF1
Synonyms:	hNP95; hUHRF1; huNp95; ICBP90; Np95; RNF106; TDRD22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239576 representing NM\_001290050.  
 Blue=ORF Red=Cloning site Green=Tag(s)

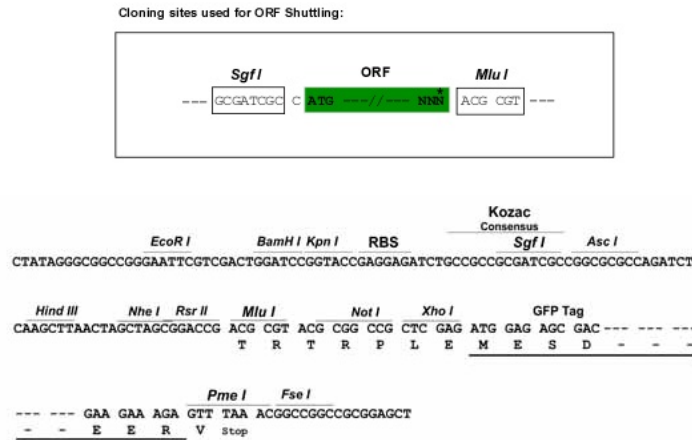
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CCTGCCTGCCGTACGACCTGGGCCGAGCTATGCCATGCAGGTGAACCAAGCCTTCGACACCGTCTCTC
AACCGTCTTCCCGGCTACGGCAATGGCCGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG239576  
 Blue=ORF Red=Cloning site Green=Tag(s)

MWIQVRTMDGRQTHTVDSL SRL TKVEELRRKIQELFHVEPGLQRLFYRGKQMEDGHTLFDYEVRLNDTI  
 QLLVRQSLVLPSTKERDSELSDTDSGCCLGQSESDKSSSTHGEAAAETDSRPADEDMWDETELGLYKVN  
 EYVDARDTNMGAWFEAQVVRVTRKAPSRDEPCSSTSRPALEEDVIYHVKYDDYPENGVVQMNSTRDVRAR  
 ARTIIKWQDLEVGQVVMLNYPDNPKERGFWDYDAEISRKRETRTARELYANVVLGDDSLNDCRIIFVDE  
 VFKIERPGE GSPMVDNPMRRKSGPCKHCKDDVNRLCRVCACHLCGGRQDPDKQLMCDECDMAFHICYCL  
 DPPLSSVPSSEDEWYCPECRNDASEVVLAGERLRESKKKAKMASATSSSQRDWKGGMACVGRKTECTIVP  
 SNHYGPIPGIPVGTMRFRVQVSESGVHRPHVAGIHGRSNDGAYSLVLAGGYEDDVHGNFFTYTGSGG  
 RDLSGNKRTAEQSCDQKLTNTNRALALNCFAPINDQEGAEAKDWRSGKPVVRNVKGGKNSKYAPAEG  
 NRYDGIYKVVKYWPEKKGSGFLVWRYLLRRDDDEPGPWTKEGKDRIKKLGTMQYPEGYLEALANRERE  
 KENSKREEEQEGGFASPRTGKGWKRKSAGGGPSRAGSPRRTSKKTKVEPYSLTAQQSSLIREDKSN  
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 MGYGFYHFGTYPSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPEDE  
 SVIFTDKIIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERY

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001290050

**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).

RefSeq: [NM\\_001290050.1](#), [NP\\_001276979.1](#)

RefSeq Size: 4339 bp

RefSeq ORF: 2382 bp

Locus ID: 29128

UniProt ID: [Q96T88](#)

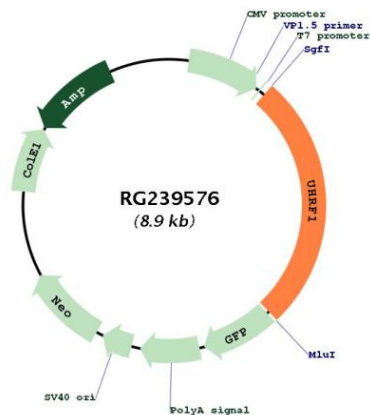
Cytogenetics: 19p13.3

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]

### Product images:



Circular map for RG239576