

## Product datasheet for **RC219579**

### **NIRF (UHRF2) (NM\_152896) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NIRF (UHRF2) (NM_152896) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NIRF
Synonyms:	NIRF; RNF107; TDRD23; URF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC219579 representing NM\_152896  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGGATACAGTTTCGCACCATTGATGGCTCCAAGACGTGCACCATTGAGGACGTGTCTCGCAAAGCCA  
 CGATTGAGGAGCTGCGCAGCGGGTGTGGGCGCTGTTTCGACGTGCGGCCGAATGCCAGCGCCTCTTCTA  
 CCGGGCAAGCAGTTGGAATAATGGATATACCTATTTGATTATGATGTTGGACTGAATGATATAATTTCAG  
 CTGCTAGTTTCGCCAGACCCTGATCATCTTCTGGCACATCTACACAGATTGAGGCTAAACCCTGTTCTA  
 ATAGTCCACCTAAAGTAAAGAAAGCTCCGAGGGTAGGACCTTCCAATCAGCCATCTACATCAGCTCGTGC  
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 CACTGAAGAATGCCAGTCTTGTAAAAGGACTAATGGAATAATAAAGCATAAATCCAAAGAGAACACAAA  
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 ATCCAGTATGATGAATACCCAGAAAGCGGTACTCTAGAAATGAATGTCAAGGATCTTAGACCACGAGCTA  
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 TGACCCGTAATGTGACCTGTGTGGTGGAGACCCAGAAAAGAAATGTCATTCTTGCCTGTCTGTATGT  
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 AGCAGGTGTTACAGACCCCATGTTGGTGAATTCATGGTCAAGTAATGATGGGGCTTATTCTCTTGTGTA  
 CTGGCTGGTGGATTTGCGGATGAAGTCGACCGAGGTGATGAGTTCACATACTGGAAGCGGTGGTAAAA  
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 CAAAGAAGCAGCCAGTGAACCCACAAAAGGCCAATTTTCAGATGATGACTGTCCAAGTGCCCTCAAAGT  
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 TGCCGGCATGATCTTGGCCAGAATTACATCATGATTTCCAATGAGATTCTGCAGACTCTACTTGACCTTT  
 TCTTCCCTGGCTACAGCAAAGGACGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219579 representing NM\_152896  
Red=Cloning site Green=Tags(s)

MWIVRTIDGSKTCTIEDVSRKATIEELRERVWALFDVRPECQRLFYRGKQLENGYTLFDYDVGLNDIIQ  
LLVRPDPDHLPGTSTQIEAKPCSNPPKVKAPRVGPNQSTARSARLIDPGFGIYKVNELVDARDVGL  
GAWFEAHIHSVTRASDGGQSRGKTPLKNGSSCKRTNGNIKHKSKENTNKLDSVPSTNSDCVAADEDVIYH  
IQYDEYEPESGTLEMNVKDLRPRARTILKWNELNVGDVVMVNYNVESPGQRFWFDAEITTLKTISRKKE  
LRVKIFLGGSEGLNDCKIISVDEIFKIERPGAHPLSFADGKFLRRNDPECDLGGDPEKKCHSCSRVC  
GGKHEPNMQLLCDECNVAYHIYCLNPPLDKVPEEEYWYCPCKTDSSEVVKAGERLKMSKKKAKMPSAST  
ESRRDWGRGMACVGRRECTIVPSNHYGPIPGIPVGSTWFRVQVSEAGVHRPHVGGIHGRSNDGAYSLV  
LAGGFADVDRGDEFTYTSGGKNLAGNKRIGAPSADQTLTMMNRALALNCDAPLDDKIGAESRNWRAGK  
PVRVIRSFKGRKISKYAPEEGNRYDGIYKVVKYWPEISSHGFLVWRYLLRRDDVEPAPWTSEGIERSRR  
LCLRLQYPAGYPSDKEGKPKGQSKKQPSGTTKRPISSDDCPSASKVYKASDSAEAEAFQLTPQQHLI  
REDCQNQKLWDEVLSHLVEGNFLKKLEQSFMCVCCQELVYQPVTTECFHNVCCKDCLQRSFKAQVFSCPA  
CRHDLGQNYIMIPNEILQTLDDLFFPGYSKGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mg2877\\_a02.zip](https://cdn.origene.com/chromatograms/mg2877_a02.zip)

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_152896

ORF Size: 2406 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\\_152896.3](#)

**RefSeq Size:** 3621 bp

**RefSeq ORF:** 2409 bp

**Locus ID:** 115426

**UniProt ID:** [Q96PU4](#)

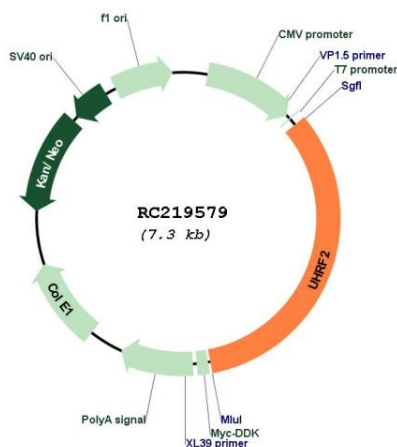
**Cytogenetics:** 9p24.1

**Protein Families:** Druggable Genome, Transcription Factors

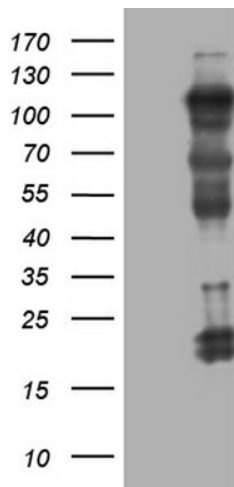
**MW:** 89.8 kDa

**Gene Summary:** This gene encodes a nuclear protein which is involved in cell-cycle regulation. The encoded protein is a ubiquitin-ligase capable of ubiquinating PCNP (PEST-containing nuclear protein), and together they may play a role in tumorigenesis. The encoded protein contains an NIRF\_N domain, a PHD finger, a set- and ring-associated (SRA) domain, and a RING finger domain and several of these domains have been shown to be essential for the regulation of cell proliferation. This protein may also have a role in intranuclear degradation of polyglutamine aggregates. Alternative splicing results in multiple transcript variants some of which are non-protein coding. [provided by RefSeq, Feb 2012]

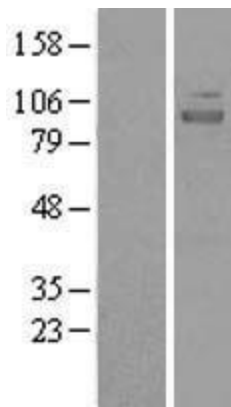
### Product images:



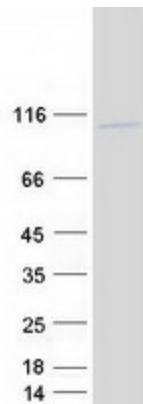
Circular map for RC219579



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UHRF2 (Cat# RC219579, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-UHRF2 (Cat# [TA810202])(1:2000). Positive lysates [LY407258] (100ug) and [LC407258] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407258]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219579 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UHRF2 protein (Cat# [TP319579]). The protein was produced from HEK293T cells transfected with UHRF2 cDNA clone (Cat# RC219579) using MegaTran 2.0 (Cat# [TT210002]).