

## Product datasheet for **RC223491**

### **RNF14 (NM\_183399) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RNF14 (NM_183399) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF14
Synonyms:	ARA54; HFB30; HRIHFB2038; TRIAD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC223491 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

RCATGTCGTCAGAAGATCGAGAAGCTCAGGAGGATGAATTGCTGGCCCTGGCAAGTATTTACGATGGAGA  
 TGAATTTAGAAAAGCAGAGTCTGTCCAAGTGGAGAAACCAGGATCTATTTGGATTTGCCACAGAATTTT  
 AAGATATTTGTGAGCGGCAATCAAAATGAGTGTCTCCAGAATAGTGGCTTTGAATACACCATTTGCTTTT  
 TGCTCCACTTGTGCTGAACTTTGAACTGCCACCAGATTATCCATCCTCTTCCCCACCTTATTCACT  
 TAGTGGCAAATGGCTGTCACTCACTCAGCTATCTGCTCTATGCAAGCACTTAGACAACCTATGGGAAGAA  
 CACCGTGGCAGCGTGGTCTGTTGCTGGATGCAATTTCTTAAGGAAGAGACCCTAGCATACTTGAATA  
 TTGTCTCTCTTTGAGCTCAAGATTGGTTCTCAGAAAAAGTGCAGAGAAGGACAGCTCAAGCTTCTCC  
 CAACACAGAGCTAGATTTGGAGGAGCTGCTGGATCTGATGTAGACCAAGAGGAAATTTGGATGAGAGA  
 GCAGTGCAGGATGTGAATCACTGTCAAATCTGATCCAGGAAATCTTGGACTTTGATCAAGCTCAGCAGA  
 TAAATGCTTTAATAGTAAATGTTCTGTGCAATCTGTTTCTGTGAGAAGCTGGGTAGTGAATGCAT  
 GTACTTCTGGAGTGCAGGCATGTGACTGCAAAGCCTGTCTGAAGGACTACTTTGAAATCCAGATCAGA  
 GATGGCCAGGTTCAATGCCTCACTGCCAGAACCAAAGTGCCCTTCGGTGGCCACTCCTGGTCAGGTCA  
 AAGAGTTAGTGAAGCAGAGTTATTTGCCCGTTATGACCGCTTCTCCTCCAGTCTCCTTGGACCTGAT  
 GGCAGATGTGGTACTGCCCGCGCTGCTGCCAGTGCCTGTGATGCAGGAACCTGGCTGCACCATG  
 GGTATCTGCTCCAGTCAATTTGCTTCTGTACTTTGTGAGGTTGACCTACCATGGGGTCTCCCAT  
 GTAAGGTGACTGCAGAGAAATTAATGGACTTACGAAATGAATACCTGCAAGCGGATGAGGCTAATAAAG  
 ACTTTTGGATCAAAGGTATGGTAAGAGAGTGATTCAGAAGGCACCTGGAAGAGATGGAAAGTAAGGAGTGG  
 CTAGAGAAGAACTCAAAGAGCTGCCATGTTGTGGAATCCCATAGAGAAATTAGACGGATGTAACAAGA  
 TGACATGTACTGGCTGTATGCAATATTTCTGTTGATTTGCATGGTTCTCTCTAGAGCAAACCTTA  
 CAAACATTTCAATGACCTGTTTACCATGTTTTAACCGCTGTTTTATGCTGTGGATGTTGACGACGAT  
 ATTTGGGAAGATGAGGTAGAAGAC

**ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC223491 protein sequence  
 Red=Cloning site Green=Tags(s)

XCRQKIEKLRMNCWPWQVFTMEMNLEKQSLSKVEKPGSIWICHIRISRYL\*AAIQMSVSRIVALNTPFAF  
 CLHLC\*TLNCHQIIHPLPHLHSHLVANGCHQLSYLLYAST\*TTYGKNTVAAWSCLPGCNFLRKRP\*HT\*  
 LSLLLSSRLVLRKKCREGQLKLLPTQS\*ILEELLDLM\*TKRKLWMREQCRMWNHCQI\*SRKSWTLIKLSR  
 \*NALIVNCSCAVSVSVRSWVNACTSWSAGMCTAKPV\*RTTLKSRSEMARFNASTAQNQSALRWPLLVRS  
 KS\*WKQSYLPVMTAFSSPPWT\*WQMWCTAPGRAASCL\*CRNLAAPWVSAPAAILPSVLCAG\*PTMGSPH  
 VR\*LQRN\*WTYEMNTCKRMRLIKDFWIKGMVRE\*FRRHWKRWKVRSG\*RRTQRAAHVVELP\*RN\*TDVTR  
 \*HVLAVNCISVGF AFWLSLEQTL TNISMTLVHHVLTGCFMLWMLTTIFGKMR\*K

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2876\\_e12.zip](https://cdn.origene.com/chromatograms/mg2876_e12.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_183399

**ORF Size:** 1422 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\\_183399.2](#), [NP\\_899646.1](#)

**RefSeq Size:** 4007 bp

**RefSeq ORF:** 1425 bp

**Locus ID:** 9604

**UniProt ID:** [Q9UBS8](#)

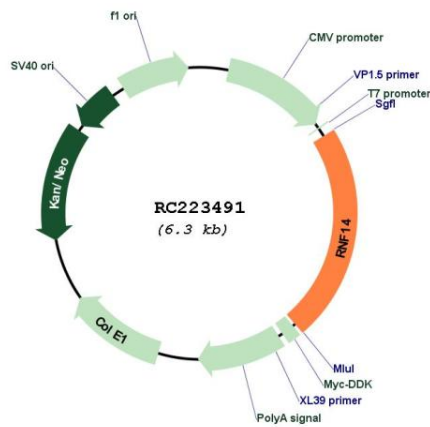
**Cytogenetics:** 5q31.3

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

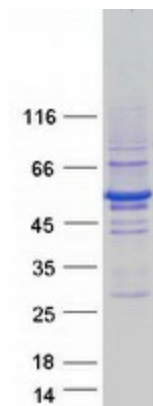
**MW:** 53.8 kDa

**Gene Summary:** The protein encoded by this gene contains a RING zinc finger, a motif known to be involved in protein-protein interactions. This protein interacts with androgen receptor (AR) and may function as a coactivator that induces AR target gene expression in prostate. A dominant negative mutant of this gene has been demonstrated to inhibit the AR-mediated growth of prostate cancer. This protein also interacts with class III ubiquitin-conjugating enzymes (E2s) and may act as a ubiquitin-ligase (E3) in the ubiquitination of certain nuclear proteins. Six alternatively spliced transcript variants encoding two distinct isoforms have been reported. [provided by RefSeq, Jan 2011]

**Product images:**



Circular map for RC223491



Coomassie blue staining of purified RNF14 protein (Cat# [TP323491]). The protein was produced from HEK293T cells transfected with RNF14 cDNA clone (Cat# RC223491) using MegaTran 2.0 (Cat# [TT210002]).