

## Product datasheet for **RC223362**

### **RNF14 (NM\_183400) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RNF14 (NM_183400) 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:**

>RC223362 representing NM\_183400  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGTCAGAAGATCGAGAAGCTCAGGAGGATGAATTGCTGGCCCTGGCAAGTATTTACGATGGAGATG  
 AATTTAGAAAAGCAGAGTCTGTCCAAGGTGGAGAAACCAGGATCTATTTGGATTTGCCACAGAATTTCAA  
 GATATTTGTGAGCGCAATTCAAATGAGTGTCTCCAGAATAGTGGCTTTGAATACACCATTTGCTTTCTG  
 CCTCCACTTGTGCTGAACTTTGAACTGCCACCAGATTATCCATCCTCTTCCCCACCTTCATTACACTTA  
 GTGGCAAATGGCTGTACCAACTCAGCTATCTGCTCTATGCAAGCACTTAGACAACCTATGGGAAGAACA  
 CCGTGGCAGCGTGGTCTGTTTGCCTGGATGCAATTTCTTAAGGAAGAGACCCTAGCATACTTGAATATT  
 GTCTCTCCTTTTGTAGCTCAAGATTGGTTCTCAGAAAAAGTGCAGAGAAGGACAGCTCAAGCTTCTCCCA  
 ACACAGAGCTAGATTTTGGAGGAGCTGTGGATCTGATGTAGACCAAGAGGAAATTTGGATGAGAGAGC  
 AGTGCAGGATGTGAATCACTGTCAAATCTGATCCAGGAAATCTTGGACTTTGATCAAGCTCAGCAGATA  
 AAATGCTTTAATAGTAAATTTGTTCTGTGCAAGTATCTGTTTCTGTGAGAAGCTGGGTAGTGAATGCATGT  
 ACTTCTTGGAGTGCAGGCATGTGTACTGCAAAGCCTGTCTGAAGGACTACTTTGAAATCCAGATCAGAGA  
 TGGCCAGGTTCAATGCCTCAACTGCCGAGAACCAAGTGCCTTTCGGTGGCCACTCCTGGTCAGGTCAA  
 GAGTTAGTGAAGCAGAGTTATTTGCCCGTTATGACCGCCTTCTCCTCCAGTCTCCTTGGACCTGATGG  
 CAGATGTGGTGTACTGCCCCGGCCGTGCTGCCAGCTGCCTGTGATGCAGGAACCTGGCTGCACCATGGG  
 TATCTGCTCCAGTGCATTTTGCTTCTGTACTTTGTGAGGTTGACCTACCATGGGGTCTCCCATGT  
 AAGGTGACTGCAGAGAAATTAATGGACTTACGAAATGAATACCTGCAAGCGGATGAGGCTAATAAAAGAC  
 TTTTGGATCAAAGGTATGGTAAGAGAGTGATTAGAAGGCACTGGAAGAGATGGAAGTAAGGAGTGGCT  
 AGAGAAGAACTCAAAGAGCTGCCATGTTGTGGAACCTCCATAGAGAAATTAGACGGATGTAAACAAGATG  
 ACATGTACTGGCTGTATGCAATATTTCTGTTGGATTTGCATGGGTCTCTCTCTAGAGCAAACCTTACA  
 AACATTTCAATGACCCTGGTTCACCATGTTTTAACCGGCTGTTTTATGCTGTGGATGTTGACGACGATAT  
 TTGGGAAGATGAGGTAGAAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC223362 representing NM\_183400  
 Red=Cloning site Green=Tags(s)

MSEEDREAQDELLALASIYDGDDEFKAEVSVGGGETRIYLDLPQNFKIFVSGNSNECLQNSGFETYICFL  
 PPLVLFNFELPPDYPPSSPPSFTLSGKWLSPQLSALCKHLDNLWEEHRGSVVLFAWMQFLKEETLAYLNI  
 VSPFELIGSQKKVQRTAQASPNTELDGGAAGSDVDQEEIVDERAVQDVESSLNIQEIILDFDQAQQI  
 KCFNSKFLCSICFCEKLGSECMYFLECRHVYCKACLKDYFEIQIRDGQVQCLNCPKPCPSVATPGQVK  
 ELVEAELFARYDRLLQLSSLDLMDVVYCPRPCCQLPVMQEPGCTMGICSSCNFAFCTLCRLTYHGVSPC  
 KVTAEKLMDLRNEYLQADEANKRLLDQRYGKRVIQKALEEMESKEWLEKNSKSCPCCGTPIEKLDGCNKM  
 TCTGCMQYFCWICMGSLSRANPYKHFNDPGSPCFNRLFYAVDVEDDIWEDEVED

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

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

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_183400

**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\\_183400.3](#)
**RefSeq Size:** 2970 bp

**RefSeq ORF:** 1425 bp

**Locus ID:** 9604

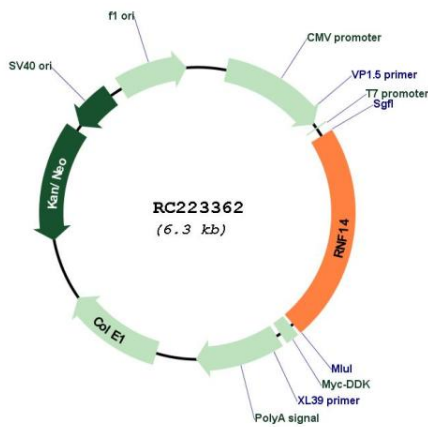
**UniProt ID:** [Q9UBS8](#)
**Cytogenetics:** 5q31.3

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

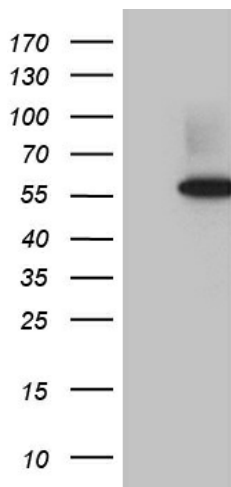
**MW:** 53.7 kDa

**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]

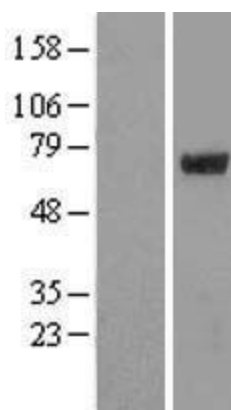
**Product images:**



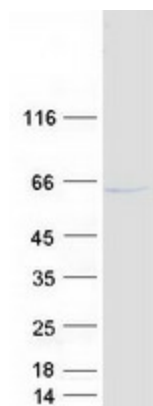
Circular map for RC223362



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RNF14 (Cat# RC223362, 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-RNF14 (Cat# [TA811050])(1:2000). Positive lysates [LY405271] (100ug) and [LC405271] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY405271]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223362 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RNF14 protein (Cat# [TP323362]). The protein was produced from HEK293T cells transfected with RNF14 cDNA clone (Cat# RC223362) using MegaTran 2.0 (Cat# [TT210002]).