

## Product datasheet for **RG223304**

### **RNF14 (NM\_004290) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RNF14 (NM_004290) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF14
Synonyms:	ARA54; HFB30; HRIHFB2038; TRIAD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223304 representing NM\_004290  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGTCAGAAGATCGAGAAGCTCAGGAGGATGAATTGCTGGCCCTGGCAAGTATTTACGATGGAGATG  
 AATTTAGAAAAGCAGAGTCTGTCCAAGGTGGAGAAACCAGGATCTATTTGGATTTGCCACAGAATTTCAA  
 GATATTTGTGAGCGCAATTCAAATGAGTGTCTCCAGAATAGTGGCTTTGAATACACCATTTGCTTTCTG  
 CCTCCACTTGTGCTGAACCTTGAAGTCCACCAGATTATCCATCCTCTTCCCCACCTTCATTACACTTA  
 GTGGCAAATGGCTGTACCAACTCAGCTATCTGCTCTATGCAAGCACTTAGACAACCTATGGGAAGAACA  
 CCGTGGCAGCGTGGTCTGTTTGCCTGGATGCAATTTCTTAAGGAAGAGACCCTAGCATACTTGAATATT  
 GTCTCTCCTTTGAGCTCAAGATTGGTTCTCAGAAAAAGTGCAGAGAAGGACAGCTCAAGCTTCTCCA  
 ACACAGAGCTAGATTTGGAGGAGCTGCTGGATCTGATGTAGACCAAGAGGAAATGTGGATGAGAGAGC  
 AGTGCAGGATGTGAATCACTGTCAAATCTGATCCAGGAAATCTTGGACTTTGATCAAGCTCAGCAGATA  
 AAATGCTTTAATAGTAAATGTTCTGTGCAAGTATCTGTTTCTGTGAGAAGCTGGGTAGTGAATGCATGT  
 ACTTCTTGGAGTGCAGGCATGTGTACTGCAAAGCCTGTCTGAAGGACTACTTTGAAATCCAGATCAGAGA  
 TGGCCAGGTTCAATGCCTCAACTGCCGAGAACCAAGTGCCTTTCGGTGGCCACTCCTGGTCAGGTCAA  
 GAGTTAGTGAAGCAGAGTTATTTGCCCGTTATGACCGCCTTCTCCTCCAGTCTCCTTGGACCTGATGG  
 CAGATGTGGTGTACTGCCCGCGCGTGTGCCAGCTGCCTGTGATGCAGGAACCTGGCTGCACCATGGG  
 TATCTGCTCCAGTGCATTTTGCTTCTGTACTTTGTGAGGTTGACCTACCATGGGGTCTCCCATGT  
 AAGGTGACTGCAGAGAAATTAATGGACTTACGAAATGAATACCTGCAAGCGGATGAGGCTAATAAAAGAC  
 TTTTGGATCAAAGGTATGGTAAGAGAGTGATTTCAGAAAGCACTGGAAGAGATGGAAGTAAGGAGTGGCT  
 AGAGAAGAACTCAAAGAGCTGCCATGTTGTGGAACCTCCATAGAGAAATTAGACGGATGTAACAAGATG  
 ACATGTACTGGCTGTATGCAATATTTCTGTTGGATTTGCATGGGTCTCTCTCTAGAGCAAACCTTACA  
 AACATTTCAATGACCCTGGTTCACCATGTTTTAACCGGCTGTTTTATGCTGTGGATGTTGACGACGATAT  
 TTGGGAAGATGAGGTAGAAGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG223304 representing NM\_004290  
 Red=Cloning site Green=Tags(s)

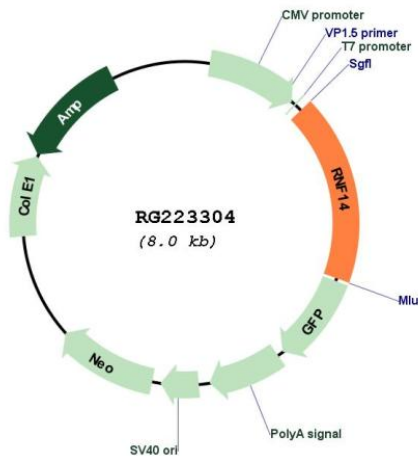
MSEEDREAQEDELLALASIYDGFDEFKAEVQGGETRIYLDLPQNFKIFVSGNSNECLQNSGFYEITICFL  
 PPLVLFNFELPPDYPPSSPPSFTLSGKWLSPQLSALCKHLDNLWEEHRGSVVLFAWMQFLKEETLAYLNI  
 VSPFELKIGSQKVKRRTAQASPNTLDFGGAAGSDVDQEEIVDERAVQDVESLNLIQEILDFDQAQOI  
 KCFNSKLFCSI CFCEKLGSECMYFLECRHVYCKACLKDYFEIQIRDGQVQCLNCPKPCPSVATPGQVK  
 ELVEAELFARYDRLLQLSSLDLMDVVYCPRPCCQLPVMQEPGCTMGICSSCNFAFCTLRLTYHGVSPC  
 KVTAEKMLDLRNEYLQADEANKRLLDQRYGKRVIQKALEEMESKEWLEKNSKSCPCCGTPIEKLDGCNKM  
 TCTGCMQYFCWICMGLSRANPYKHFNDPGSPCFNRLFYAVDVEDDIWEDEVED

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_004290

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004290.5</a>
<b>RefSeq Size:</b>	4395 bp
<b>RefSeq ORF:</b>	1425 bp
<b>Locus ID:</b>	9604
<b>UniProt ID:</b>	<a href="#">Q9UBS8</a>
<b>Cytogenetics:</b>	5q31.3
<b>Domains:</b>	RING, IBR, RWD
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p>