

## Product datasheet for **RG201048**

### **RNF181 (NM\_016494) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RNF181 (NM\_016494) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RNF181  
**Synonyms:** HSPC238  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201048 representing NM\_016494  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGTCCTATTTTCGATGAACACGACTGCGAGCCGTCGGACCCTGAGCAGGAGACGGAACCAACATGC  
 TGCTGGAGCTCGCAAGGTCACTTTTCAATAGGATGGACTTTGAAGACTTGGGTTGGTAGATTTGGGA  
 CCACCACCTGCCTCCACCAGCTGCCAAGACTGTGGTTGAGAACCCTCCCAGGACAGTCATCAGAGGCTCT  
 CAGGCTGAGCTCAAGTCCCCGTGTCTTTTGAATTTGAGGAGGAGGAGACTGCCATTGAGATGCCTT  
 GCCATCACCTTTTCCATTCCAGCTGCATTCTGCCCTGGCTAAGCAAGACAAATTCCTGTCCCTTGTGCCG  
 CTATGAGCTGCCCACTGATGACGACACTTATGAGGAGCACAGACGAGATAAGGCTCGAAAACAGCAGCAG  
 CAACACCGACTGGAGAACCTCCATGGAGCCATGTACACG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201048 representing NM\_016494  
 Red=Cloning site Green=Tags(s)

MASYFDEHDCEPSDPEQETRTNMELLEARSLEFNRMDFDLGLVVDWDHLLPPPAAKTVVENLPRTVIRGS  
 QAELKCPVCLLEFEEETAIEMPCHHLFHSSCILPWLKTNCSPLCRYELPTDDDTYEEHRRDKARKQQQ  
 QHRLNLHGAMYT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI


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**Cloning Scheme:**


**ACCN:** NM\_016494

**ORF Size:** 459 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\\_016494.4](#)

**RefSeq Size:** 601 bp

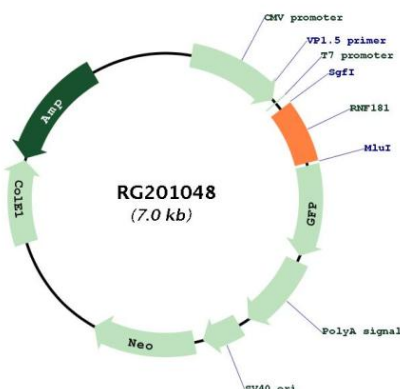
**RefSeq ORF:** 462 bp

**Locus ID:** 51255

**UniProt ID:** [Q9P0P0](#)

|                          |                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cytogenetics:</b>     | 2p11.2                                                                                                                                                                                                 |
| <b>Protein Families:</b> | Druggable Genome                                                                                                                                                                                       |
| <b>Gene Summary:</b>     | RNF181 binds the integrin alpha-IIb (ITGA2B; MIM 607759)/beta-3 (ITGB3; MIM 173470) complex and has E3 ubiquitin ligase activity (Brophy et al., 2008 [PubMed 18331836]). [supplied by OMIM, Dec 2008] |

## Product images:



Circular map for RG201048