

## Product datasheet for **RG208696**

### PRR14 (NM\_024031) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | PRR14 (NM_024031) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | PRR14                                    |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>RG208696 representing NM\_024031  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTTGCCCGGGACTCCAGCCCGCTGGCCAGCCGCTGTGTGCCCCAGCCTCTGACTCGAGCAT  
 TATGGGGAGCCAGGAGCCGAAACGGCCGAGGCTGCAGCTCCCGGGGCCCTTCTCCCTGGAAAAGGC  
 CTCTCGGCGGTCTGGCCGTGGTGTCTAGAAGATGTCATGGCTGTTACATGGTCCCGTGGTGCCTCA  
 AAGCAGACCTCCATACCACAGCACCACAGCTACCATCAGGATCCTGTCCACAGGCAGCCGCTGCCTCGC  
 CACCCCGGAGCCGGTGGTCTCGCAGGCCAGGCTCCCGACCCTCTGTGTTGTGTGCGAGCCCTT  
 GAGCCGCATCCACCGGACCTCTCCACCCTGAGGCGGCGATCAAGGACAACCCCTGGCCAGAGGAGGGC  
 CCTTCACAAAAGGTGGACCGGGCCCCAGCCACCCTGGTGGTGTGCTGGAAGACATCGCCAGTCTTA  
 GACCCCGCTGAGGGCTTCATTGATGAGACCCCAACTTCATCATCCAGCACAAGAGCTGAGCCCAT  
 GAGGATAGTTCGCCAGCCAACGCTCCACTGGGGACTAGAACCCCATCCAGCCATCTGCTCTGCCCT  
 GCAGACCTCTGGAGAGCCACCAACAGCCCGAGATCCTGCTCTGGAGCTCCCATCCACCCACCCAGT  
 CCAGCCTTTTACGCCCCGCTCAGTCCCTGGGGCTTGGCCCCGCTTCCGTTCCGTCCGCTCCAAGT  
 GGAGAGCTTTGCTGACATCTTCTCACGCCAACAACCCACAGCCCCACCCCGTCCCCCAATG  
 AAGCTGGAGTTGAAGATCGCCATCTCAGAGGCCGAGCAGTCTGGGGCTGTGAGGGCACTGCGTCTGTCA  
 GCCCCCGCCCCAATCCGCCAGTGGCGAACTCAGGACCACAATACCCAGCACTTCTCCCTAAGCCCTC  
 TCTGGGCCGAAGTACTCTGCCCTGATCTGGGGCCCCCTGGCCAGGTACCTGCACCTGGCCACCTGCT  
 CCACCCCAACCAAGCCGACCACGGCCCGCGGCGCACACTGTGGTGGTGGGAAATGGCCGAGCCCGC  
 CACCCCTCGGCCCTGTCTCCGAAAGAGGTCTTCCCTCTCGGAGGAGTGGGAGCCTCCCCTTCTCAC  
 CACATCTTGTCTGTCCACGGCATCCACTTCTTCTCCGAACAGCAGAACCCAGGTTGGGTTCAACCAAA  
 GGAAGGAGCCAAGAGCCTCAAAGGACCAGGTGCTTTCAGAACCTGAGACCAAGACCATGGGAAAGTGT  
 CTCGATTCAGAATACGCAGAACCAGCCGCTCCTCAGCTAAACCTTACACCAATGGGACTGCCTCGACC  
 AATCAGGTTGAACAAGAAGGAGTTCAGCTTGAAGAAATTTACACCAACAAGAATTACCAATCACCCACA  
 ACCAGGAGGACCTTTGAGACCATCTTTGAGGAACCCCGGAGCGCAATGGGACTCTGATTTTACCAGCT  
 CAAGGAAGCTCCGGCGGGCTGTGGAATTCGGGACAGCAGCTTCTCGATCACGAAGACCGTCCCGTGG  
 GGTCCGGGCTGCAGGGGGCAGGACTGTTCTCCCAATGTGGCCCCAGCCCTGATGTGGCCCCCTGCTC  
 CAGCAGCGGCTGGAGGAGCTAGATGCCTTCTCCTGGAGGAAGAAACAGTATGATCGGAGCAGCCCACT  
 GGACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208696 representing NM\_024031  
 Red=Cloning site Green=Tags(s)

MDLPGDSSPPGQPRQLCRQPLTRALWGARSPKRPRLQLPGAPSPLEKASRRVLAVVLEDVMAVHMVPPVPS  
 KQTSIPQHSHSYHQDPVHRQPPASPPRQAGWSSQARPPDPLCLCREPLSRIHRTSSTLRRRSRTTPGPEEG  
 PSQKVDRAPQPTLVVMLEDIASPRPPAEGFIDETPNFIIPAQRAEPMRIVRQPTPPPGDLEPPFQPSALP  
 ADPLESPPTAPDPALELPSTPPSSLLRPRLSPWGLAPLFRSVRSKLESFADIFLTPNKTPQPPPSPPM  
 KLELKIASEAEQSGAAEGTASVSPRPPIRQWRTQDHNTALLPKPSLGRSYSCPDLGPPGPGTCTWPPA  
 PPQPSRPRRRHTVGGGEMARPPPRPCLRKEVFPLGGVGASPSLTTSCSSTASTSFSEPAEPRLGSTK  
 GKEPRASKDQVLSEPETKTMGKVSFRIRRTPARPQLNLTMPGLPRPIRLNKKEFSLEEIYTNKNYSPT  
 TRRTFETIFEEPRERNGTLIFTSSRKLRRAVEFRDSSLPRSRPRSARGVRAAGGRTVPPNVAPSPDVGPLL  
 QQRLEELDALLLEEETVDREQPHWT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



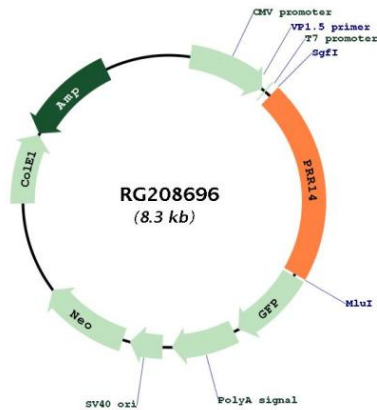
- ACCN:** NM\_024031
- ORF Size:** 1755 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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.
- Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
- RefSeq:** [NM\\_024031.5](#)
- RefSeq Size:** 2154 bp
- RefSeq ORF:** 1758 bp
- Locus ID:** 78994

UniProt ID: [Q9BWN1](#)

Cytogenetics: 16p11.2

Gene Summary: The protein encoded by this gene tethers heterochromatin to the nuclear laminar scaffold by binding heterochromatin protein 1 (HP1) and the nuclear lamina. The tether is broken during mitosis and reforms quickly after mitosis, with the encoded protein first binding HP1 and then attaching to the nuclear lamina. This protein also has been shown to promote MyoD activity and skeletal myogenesis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for RG208696