

## Product datasheet for **RG214515**

### **RBP1 (NM\_002899) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RBP1 (NM\_002899) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RBP1  
**Synonyms:** CRABP-I; CRBP; CRBP1; CRBPI; RBPC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG214515 representing NM\_002899  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

**ATGCCAGTCGACTTCACTGGTACTGGAAGATGTTGGTCAACGAGAATTCGAGGAGTACCTGCGCGCC**  
**TCGACGTCAATGTGGCCTTGCGAAAATCGCCAATTGCTGAAGCCAGACAAAGAGATCGTCAGGACGG**  
**TGACCATATGATCATCCGCACGCTGAGCACTTTTAGGAACTACATCATGGACTTCCAGGTTGGGAAGGAG**  
**TTTGAGGAGGATCTGACAGGCATAGATGACCGCAAGTGCATGACAACAGTGAGCTGGACGGAGACAAGC**  
**TCCAGTGTGTGAGAAGGGTGAGAAGGAGGGCGTGGCTGGACCCAGTGGATCGAGGGTGATGAGCTGCA**  
**CCTGGAGATGAGAGTGAAGGTGTGGTCTGCAAGCAAGTATTCAAGAAGGTGCAG**

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG214515 representing NM\_002899  
**Red**=Cloning site **Green**=Tags(s)  
  
MPVDFTGYWKMLVNENFEEYLRALDVNVALRKIANLLKPDKEIVQGDHMIIRTLSTFRNYIMDFQVGKE  
FEEDLTGIDDRKCMTTVSWDGDKLQCVQKGEKEGRGWTQWIEGDELHLEMRVEGVVCKQVFKKVQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_002899

**ORF Size:** 405 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.

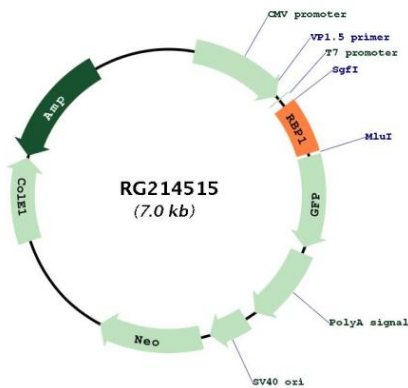
**RefSeq:** [NM\\_002899.2](#), [NP\\_002890.1](#)

**RefSeq Size:** 720 bp

RefSeq ORF: 594 bp  
 Locus ID: 5947  
 UniProt ID: [P09455](#)  
 Cytogenetics: 3q23  
 Gene Summary:

This gene encodes the carrier protein involved in the transport of retinol (vitamin A alcohol) from the liver storage site to peripheral tissue. Vitamin A is a fat-soluble vitamin necessary for growth, reproduction, differentiation of epithelial tissues, and vision. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

**Product images:**



Circular map for RG214515