

## Product datasheet for **RG205891**

### **RBP5 (NM\_031491) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RBP5 (NM\_031491) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RBP5  
**Synonyms:** CRBP-III; CRBP3; CRBP III; HRBPiso  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205891 representing NM\_031491  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGCCTCCCAACCTCACTGGCTACTACCGCTTTGTCTCGCAGAAGAACATGGAGGACTACCTGCAAGCCC  
TAAACATCAGCTTGGCTGTGCGGAAGATCGCGCTGCTGCTGAAGCCGGACAAGGAGATCGAACACCAGGG  
CAACCACATGACGGTGAGGACGCTCAGCACCTCCGAACTACACTGTGCAGTTTGATGTGGGAGTGGAG  
TTTGAGGAGGACCTCAGGACGTGGACGGACGAAATGCCAGACCATAGTAACCTGGGAGGAGGAGCACC  
TGGTGTGTGTGCAGAAAGGGGAGGTCCCAACCGGGCTGGAGACACTGGCTGGAGGGAGAGATGCTGTA  
TCTGGAACGACTGCAAGGGATGCAGTGTGCGAGCAGGTCTTCAGGAAGGTCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG205891 representing NM\_031491  
Red=Cloning site Green=Tags(s)

MPPNLTGYRFFVSQKNMEDYLQALNISLAVRKIALLLKPDKEIEHQGNHMTVRTLSTFRNYTVQFDVGVE  
 FEEDLRSDGRKCQTIVTWEELVLCVQKGEVPNRGWRHWLEGEMLYLELTARDVCEQVFRKVR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_031491

**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.

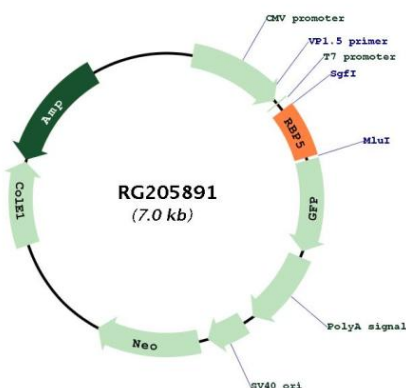
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_031491.4](#)

**RefSeq Size:** 972 bp

RefSeq ORF:	408 bp
Locus ID:	83758
UniProt ID:	<a href="#">P82980</a>
Cytogenetics:	12p13.31
Domains:	lipocalin
Gene Summary:	The protein encoded by this gene is a cellular retinol-binding protein expressed highly in kidney and liver. Down-regulation of the encoded protein in hepatocellular carcinoma was associated with large tumor size and poor patient survival rates. [provided by RefSeq, Jul 2016]

## Product images:



Circular map for RG205891