

## Product datasheet for **RG210917**

### **GPR10 (PRLHR) (NM\_004248) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GPR10 (PRLHR) (NM\_004248) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** GPR10  
**Synonyms:** GPR10; GR3; PrRPR  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210917 representing NM\_004248  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCTCATCGACCACTCGGGGCCCCAGGGTTTCTGACTTATTTTCTGGGCTGCCGCCGGCGGTCAAA  
 CTCCCGCAACCAGAGCGCAGAGGCCTCGGCGGGCAACGGTTCGGTGGCTGGCGCGGACGCTCCAGCCGT  
 CACGCCCTCCAGAGCCTGCAGCTGGTGCATCAGCTGAAGGGGCTGATCGTGTCTCTACAGCGTCGTG  
 GTGGTCTGGGGCTGGTGGCAACTGCCTGCTGGTGTGATCGCGGGTGGCGCGGCTGCACAACG  
 TGACGAACCTCCTCATCGCAACCTGGCCTTGCCGACGTGCTCATGTGCACCGCCTGCGTGCCGCTCAC  
 GCTGGCCTATGCCTTCGAGCCACGCGGCTGGGTGTTTCGGCGGGCGCCTGTGCCACCTGGTCTTCTCCTG  
 CAGCCGGTCACCGTCTATGTGTCGGTGTTCACGCTCACCACCATCGCAGTGGACCGCTACGTCGTGCTGG  
 TGCACCCGCTGAGGCGGCGCATCTCGTGCCTCAGCGCCTACGCTGTGCTGGCCATCTGGGCGTGTG  
 CGCGGTGCTGGCGCTGCCCGCCCGGTGCACACCTATCACGTGGAGCTCAAGCCGACGAGCTGCGCCTC  
 TGCGAGGAGTTCTGGGGCTCCAGGAGCGCCAGCGCCAGCTCTACGCTGGGGCTGCTGCTGGTCACT  
 ACCTGCTCCCTGCTGGTCACTCCTCTGTCTTACGTCGGGTGTGAGTGAAGCTCCGCAACCGCGTGGT  
 GCCGGGCTGCGTGACCCAGAGCCAGGCCGACTGGGACCGCGCTCGGCGCGGCGCACCTTCTGCTTGTG  
 GTGGTGGTGGTGGTGGTTCGCGCTGCTGGCTGCCGCTGCAGTCTTCAACCTGCTGGGGACCTCG  
 ACCCCACGCCATCGACCCTTACGCTTTGGGCTGGTGCAGCTGCTCTGCCACTGGCTCGCCATGAGTTTC  
 GGCTGCTACAACCCCTTCACTACGCTGGTGCACGACAGCTTCCGCGAGGAGCTGCGCAAACCTGTTG  
 GTCGTTGGCCCCGAAGATAGCCCCCATGGCCAGAATATGACCGTCAGCGTGGTCACTC

**ACCGTACGCGGCGGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210917 representing NM\_004248  
 Red=Cloning site Green=Tags(s)

MASSTTRGPRVSDLFSGLP PAVTTPANQSAEASAGNGSVAGADAPAVTPFQSLQLVHQLKGLIVLLYSVV  
 VVVGLVGNCLLVLIARVRRLLHNVTNFLIGNLALSDVLMCTACVPLTLAYAFEPGRWVFGGGLCHLVFFL  
 QPVTVYVSFVFTLTTIAVDRYVVLVHPLRRRISLRLSAYAVLAIWALSAVLALPAAVHTYHVELKPHDVRL  
 CEEFWGSQERQRQLYAWGLLLVTYLLPLLVILLSYVRSVKLRNRVVPVCVTQSQADWDRARRRRFTCLL  
 VVVVVVFVAVCWLPPLHVFNLLRDLDPHAIIDPYAFGLVQLLCHWLAMSSACYNPFIYAWLHDSFREELRKL  
 VAWPRKIAPHGQNM TVSVVI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004248

**ORF Size:** 1110 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\\_004248.2](#)

**RefSeq Size:** 1113 bp

**RefSeq ORF:** 1113 bp

**Locus ID:** 2834

**UniProt ID:** [P49683](#)

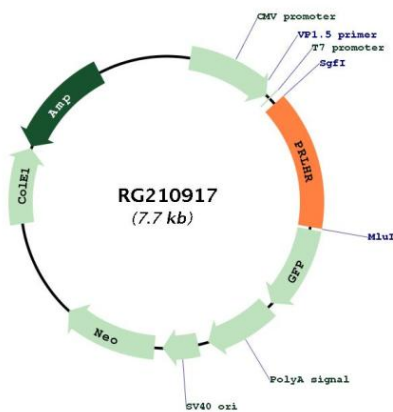
**Cytogenetics:** 10q26.11

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**Gene Summary:** PRLHR is a 7-transmembrane domain receptor for prolactin-releasing hormone (PRLH; MIM 602663) that is highly expressed in anterior pituitary (Ozawa et al., 2002 [PubMed 11923475]). [supplied by OMIM, Mar 2008]

## Product images:



Circular map for RG210917