

## Product datasheet for **RG233840**

### Prolactin Receptor (PRLR) (NM\_001204315) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prolactin Receptor (PRLR) (NM_001204315) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prolactin Receptor
Synonyms:	HPRL; hPRLrI; MFAB; RI-PRLR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233840 representing NM_001204315 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAATG  
GACAGTTACCTCCTGGAAAACCTGAGATCTTTAAATGTCGTTCTCCCAATAAGGAAACATTCACCTGCTG  
GTGGAGGCTGGGACAGATGGAGGACTTCTACCAATTATTCAGTACTTACCACAGGGAAGGAGAGACA  
CTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCAACTCCTGCCACTTTGGCAAGCAGTACACCT  
CCATGTGGAGGACATACATCATGATGGTCAATGCCACTAACAGATGGGAAGCAGTTTCTCGGATGAACT  
TTATGTGGACGTGACTTACATAGTTCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAAGTAAAACAGCCA  
GAAGACAGAAAACCTACCTGTGGATTAATGGTCTCCACCTACCTGATTGACTTAAAACTGGTTGGT  
TCACGCTCCTGTATGAAATTCGATTAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTTGTGGGCA  
GCAAACAGAGTTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGTCCAGGTTCCGTGCAAACCA  
GACCATGGATACTGGAGTGCATGGAGTCCAGCGACCTTCATTAGATACCTAGTACTTACCATGAATG  
ATACAACCGTGTGGATCTCTGTGGCTGCCTTTCTGCTGTCATCTGTTGATTATTGCTGGGCAGTGGC  
TTTGAAGGGCTATAGCATGGTGCATCTTTCCCGCAGTTCTGGCCAAAAATAAAGGATTTGAT  
GCTCATCTGTTGGAGAAGGGCAAGTCTGAAGAAGTACTGAGTGCCTTTGGGATGCCAAGACTTTCCTCCCA  
CTTCTGACTATGAGGACTTGTGGTGGAGTATTTAGAAGTAGATGATAGTGAGGACCAGCATCTAATGTC  
AGTCCATTCAAAAAGAACCCCAAGTCAAGAGAGAGAACAGCGGCAAGCCCAAGAAGCCCGGGACTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233840 representing NM\_001204315  
Red=Cloning site Green=Tags(s)

MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGET  
 LMHECPDYITGGPNSCHFVKQYTSWRWYIMMVNATNQMGSFSDELVDVYIIVQDPPLLELAVEVKQP  
 EDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQTEFKILSLHPGQKYLQVVRCKP  
 DHGYWSAWSPATFIQIPSDFTMNDTTVWISVAVLSAVICLIIVAVALKGYSMVTCIFPPVPGPKIKGFD  
 AHLLEKKGKSEELLSALGCQDFPPTSDYEDLLVEYLEVDDSEDQHLMVHSKEHPSQEREQRQAQEARDS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001204315

**ORF Size:** 1047 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\\_001204315.1](#), [NP\\_001191244.1](#)

**RefSeq Size:** 1402 bp

**RefSeq ORF:** 1050 bp

**Locus ID:** 5618

**UniProt ID:** [P16471](#)

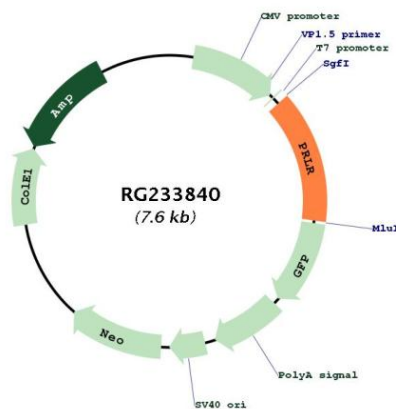
**Cytogenetics:** 5p13.2

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction

**Gene Summary:** This gene encodes a receptor for the anterior pituitary hormone, prolactin, and belongs to the type I cytokine receptor family. Prolactin-dependent signaling occurs as the result of ligand-induced dimerization of the prolactin receptor. Several alternatively spliced transcript variants encoding different membrane-bound and soluble isoforms have been described for this gene, which may function to modulate the endocrine and autocrine effects of prolactin in normal tissue and cancer. [provided by RefSeq, Feb 2011]

### Product images:



Circular map for RG233840