

## Product datasheet for RC233914

### Prolactin Receptor (PRLR) (NM\_001204316) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prolactin Receptor (PRLR) (NM_001204316) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prolactin Receptor
Synonyms:	HPRL; hPRLrI; MFAB; RI-PRLR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233914 representing NM_001204316 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAATG  
GACAGTTACCTCCTGGAAAACCTGAGATCTTTAAATGTCGTTCTCCAATAAGGAAAACATTCACCTGCTG  
GTGGAGGCTGGACAGATGGAGGACTTCTACCAATTATTCAGTACTTACCACAGGGAAGGAGAGACA  
CTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCAACTCCTGCCACTTTGGCAAGCAGTACACCT  
CCATGTGGAGGACATACATCATGATGGTCAATGCCACTAACCAGATGGGAAGCAGTTTCTCGGATGAAT  
TTATGTGGACGTGACTTACATAGTTCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAAGTAAAACAGCCA  
GAAGACAGAAAACCTACCTGTGGATTAATGGTCTCCACCTACCTGATTGACTTAAAACTGGTTGGT  
TCACGCTCCTGTATGAAATTCGATTAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTTGTGGGCA  
GCAAACAGAGTTTAAAGTTCTCAGCCTACATCCAGGACAGAAATACCTTGTCCAGGTTCCGTGCAAACCA  
GACCATGGATACTGGAGTGCATGGAGTCCAGCGACCTTCATTAGATACCTAGTACTTACCATGAATG  
ATACAACCGTGTGGATCTCTGTGGCTGCCTTTCTGCTGCATCTGTTGATTATGTCTGGCAGTGGC  
TTTGAAGGGCTATAGCATGGTGCCTGATCTTTCCGCCAGTTCTGGCCAAAAATAAAGGATTTGAT  
GCTCATCTGTTGGAGAAGGGCAAGTCTGAAGAACTACTGAGTGCCTTGGGATGCCAAGACTTTCCTCCCA  
CTTCTGACTATGAGGACTTGTGGTGGAGTATTTAGAAGTAGATGATAGTGAGGACCAGCATCTAATGTC  
AGTCCATTCAAAAAGAACCCCAAGTCAAGGTGACCCCTTGATGTTGGGTGCCTCTCATTAAAAATCTC  
AAATCTTACAGACCAAGAAAAATCTCAAGTCAAGGAAGACTTGCAGGTGTTCAAAAGGCAACATTGACCA  
CAGTCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233914 representing NM\_001204316  
Red=Cloning site Green=Tags(s)

MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYPHREGET  
 LMHECPDYITGGPNSCHFQYTSWWRTYIMMVNATNQMGSFSDELVDVTVYIVQDPDPLELAVEVKQP  
 EDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPKEAAEWEIHFAGQQTEFKILSLHPGQKYLQVVRCKP  
 DHGYWSAWSPATFIQIPSDFTMNDTTVWISVAVLSAVICLIIVWAVALKGYSMVTCIFPPVPGPKIKGFD  
 AHLLEKKGSEELLSALGCQDFPPTSDYEDLLVEYLEVDDSEDQHLMSVHSKEHPSQGDPLMLGASHYKNL  
 KSYRPRKISSQGR LAVFTKATLTTVQ

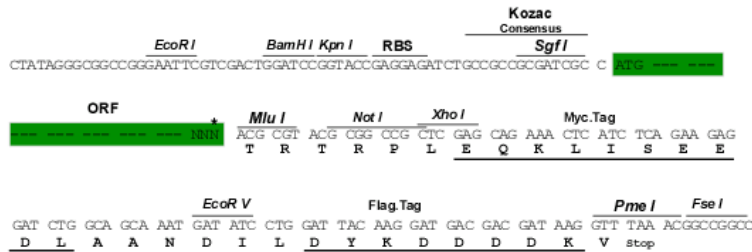
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001204316

**ORF Size:** 1128 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\\_001204316.1](#), [NP\\_001191245.1](#)

**RefSeq Size:** 1785 bp

**RefSeq ORF:** 1131 bp

**Locus ID:** 5618

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

**Cytogenetics:** 5p13.2

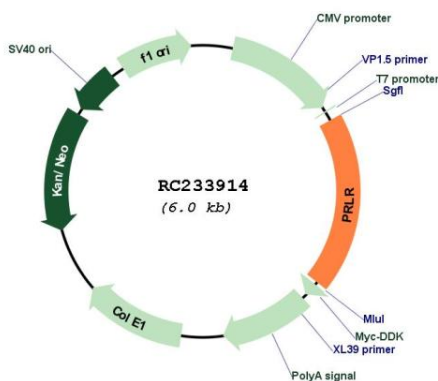
**Protein Families:** Druggable Genome, Transmembrane

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

**MW:** 43.1 kDa

**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 RC233914