

## Product datasheet for **RG209266**

### Prolactin Receptor (PRLR) (NM\_000949) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prolactin Receptor (PRLR) (NM_000949) 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)



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**ORF Nucleotide Sequence:**

>RG209266 representing NM\_000949  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCTACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAATG  
 GACAGTTACCTCCTGGAAAACCTGAGATCTTTAAATGTCGTTCTCCCAATAAGGAAACATTCACCTGCTG  
 GTGGAGCCTGGGACAGATGGAGGACTTCTACCAATTATTCAGTACTTACCACAGGGAAGGAGAGACA  
 CTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCAACTCCTGCCACTTTGGCAAGCAGTACACCT  
 CCATGTGGAGGACATACATCATGATGGTCAATGCCACTAACAGATGGGAAGCAGTTTCTCGGATGAACT  
 TTATGTGGACGTGACTTACATAGTTCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAAGTAAAACAGCCA  
 GAAGACAGAAAACCTACCTGTGGATTAATGGTCTCCACCTACCCTGATTGACTTAAAACTGGTTGGT  
 TCACGCTCCTGTATGAAATTCGATTAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTTCTGGGCA  
 GCAAACAGAGTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGTCCAGTTTCGCTGCAAACCA  
 GACCATGGATACTGGAGTGCATGGAGTCCAGCGACCTTATTAGATACCTAGTACTTACCATGAATG  
 ATACAACCGTGTGGATCTCTGTGGCTGTCTTTCTGCTGTCATCTGTTTGATTATTGCTGGGCAGTGGC  
 TTTGAAGGGCTATAGCATGGTGACTGCATCTTTCCGCCAGTTTCTGGGCCAAAAATAAAAGGATTTGAT  
 GCTCATCTGTTGGAGAAGGGCAAGTCTGAAGAATACTGAGTGCCTTGGGATGCCAAGACTTTCTCCCA  
 CTTCTGACTATGAGGACTTGTGGTGGAGTATTTAGAAGTAGATAGTGGAGACCAGCATCTAATGTC  
 AGTCCATTCAAAAGAACCACCAAGTCAAGGTATGAAACCCACATACCTGGATCCTGACTGACTCAGGC  
 CGGGGAGCTGTGACAGCCCTCCCTTTTGTCTGAAAAGTGTGAGGAACCCAGGCCAATCCCTCCACAT  
 TCTATGATCCTGAGGTCATTGAGAAGCCAGAGAATCCTGAAACAACCCACACTGGGACCCCAAGTGCAT  
 AAGCATGGAAGGCAAAAATCCCTATTTTTCATGCTGGTGGATCCAAATGTTCAACATGGCCCTTACCACAG  
 CCCAGCCAGCACAAACCCAGATCCTCTTACCACAATATTACTGATGTGTGTGAGCTGGCTGTGGCCCTG  
 CAGGTGCACCGGCCACTCTGTTGAATGAAGCAGGTAAAGATGCTTTAAAACTCTCAAACCATTAAGTC  
 TAGAGAAGAGGAAAGGCAACCCAGCAGAGGGAGGTAGAAAGTTCATTCTGAGACTGACCAGGATACG  
 CCCTGGCTGTGCCCCAGGAGAAAACCCCTTTGGCTCCGCTAAACCTTGGATTATGTGGAGATTCACA  
 AGGTCAACAAAGATGGTGCATTATCATTGCTACCAAAACAGAGAGAGAACAGCGCAAGCCCAAGAAGCC  
 CGGGACTCCTGAGAACAAATAAGGAGTATGCCAAGGTGTCCGGGTCATGGATAACAACATCCTGGTGTG  
 GTGCCAGATCCACATGCTAAAAACGTGGCTTGCTTTGAAGAATCAGCCAAAGAGGCCCCACCATCACTTG  
 AACAGAATCAAGCTGAGAAAGCCCTGGCCAACCTCACTGCAACATCAAGCAAGTGCAGGCTCCAGCTGG  
 TGGTTTGGATTACCTGGATCCCGCATGTTTACACACTCCTTTCAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209266 representing NM\_000949  
 Red=Cloning site Green=Tags(s)

MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLYHREGT  
 LMHECPDYITGGPNSCHFQKQYTSWRTYIMMVNATNQMGSFSDEL YVDVTVIVQDPDPLELAVEVKQP  
 EDKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQTEFKILSLHPGQKYLQVVRCKP  
 DHGYWSAWSPATFIQIPSDFTMNDTTVWISVAVLSAVICLIIVWAVALKGYSMVTCIFPPVPGPKIKGFD  
 AHLLEKKGSEELL SALGCQDFPPTSDYEDLLVEYLEVDDSEDQHLMSVHSKEHPSQGMKPTYLDPDSDG  
 RGSCDSPSLLSEKCEEPQANPSTFYDPEVIEKPENPETHTWDPQCI SMEGKIPYFHAGGSKCSTWPLPQ  
 PSQHNPSSYHNI TDVCELAVGPAGAPATLLNEAGKDALKSSQT IKSREEGKATQQREVESFHSSETDQDT  
 PWLLPQEKT PFGSAKPLDYVEIHKVNKD GAL SLLPKQRENSGKPKKPGTPENNYEYAKVSGVMDNNILVL  
 VPDPAKNAVCFEESAKEAPPSLEQNQAELANFATSSKRLQLGGLDYLDPACTHFSH

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_000949

**ORF Size:** 1866 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

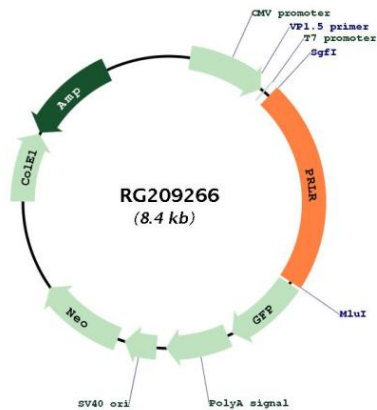
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_000949.7](#)

RefSeq Size:	3162 bp
RefSeq ORF:	1869 bp
Locus ID:	5618
UniProt ID:	<a href="#">P16471</a>
Cytogenetics:	5p13.2
Domains:	FN3
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 RG209266