

Product datasheet for **RG234343**

Prolactin Receptor (PRLR) (NM_001204314) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prolactin Receptor (PRLR) (NM_001204314) 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:

>RG234343 representing NM_001204314
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCTACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAATG
 TTCAGCCAGACCTCCTTTGGAGCTGGCTGTGGAAGTAAAACAGCCAGAAGACAGAAAACCTACCTGTG
 GATTAATGGTCTCCACCTACCCTGATTGACTTAAAACTGGTTGGTTCACGCTCCTGTATGAAATTCGA
 TTTAAAACCGAGAAAGCAGCTGAGTGGGAGATCCATTTTCTGGGAGCAAAACAGAGTTTAAAGTTCTCA
 GCCTACATCCAGGACAGAAATACCTTGTCCAGGTTGCTGCAACCCAGACCATGGATACTGGAGTGCATG
 GAGTCCAGCGACCTTCATTCAGATACCTAGTGACTTCACCATGAATGATAACAACCGTGTGGATCTCTGTG
 GCTGTCCTTTCTGCTGTCATCTGTTTGATTATTGTCTGGCAGTGGCTTTGAAGGGCTATAGCATGGTGA
 CCTGCATCTTCCGCCAGTTCCTGGGCCAAAAATAAAAGGATTTGATGCTCATCTGTTGGAGAAGGGCAA
 GTCTGAAGAACTACTGAGTGCCTTGGGATGCCAAGACTTCTCCCACTTCTGACTATGAGGACTTGCTG
 GTGGAGTATTTAGAAGTAGATGATAGTGAGGACCAGCATCTAATGTCAGTCCATTCAAAGAACACCCAA
 GTCAAGGTATGAAACCCACATACCTGGATCCTGACACTGACTCAGGCCGGGGAGCTGTGACAGCCCTTC
 CCTTTTGTCTGAAAAGTGTGAGGAACCCAGGCCAATCCCTCCACATTCTATGATCCTGAGGTCAATTGAG
 AAGCCAGAGAATCCTGAAACAACCCACACTGGGACCCCAAGTGCATAAGCATGGAAGGCAAAATCCCTT
 ATTTTCATGCTGGTGGATCCAAATGTTCAACATGGCCCTTACCACAGCCAGCCAGCACAAACCCAGATC
 CTCTTACCACAATATTACTGATGTGTGTGAGCTGGCTGTGGGCCCTGCAGGTGCACCGGCCACTCTGTTG
 AATGAAGCAGGTAAGAGTGTCTTAAAATCCTCTCAAACCATTAAGTCTAGAGAAGAGGGAAAGGCAACCC
 AGCAGAGGGAGGTAGAAAGCTTCCATTTGAGACTGACCAGGATACGCCCTGGCTGCTGCCAGGAGAA
 AACCCCTTTGGCTCCGCTAAACCTTGGATTATGTGGAGATTCACAAGGTCAACAAAGATGGTGCATTA
 TCATTGCTACAAAACAGAGAGAGAACAGCGGCAAGCCCAAGAAGCCCGGACTCCTGAGAACAATAAGG
 AGTATGCCAAGGTGTCCGGGTGATGGATAACAACATCCTGGTGTGGTGGCCAGATCCACATGCTAAAAA
 CGTGGCTTGTCTTGAAGAATCAGCCAAAGAGGCCCCACCATCACTTGAACAGAATCAAGCTGAGAAAGCC
 CTGGCCAACTTCACTGCAACATCAAGCAAGTGCAGGCTCCAGCTGGTGGTTGGATTACCTGGATCCCG
 CATGTTTTACACACTCCTTTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234343 representing NM_001204314
 Red=Cloning site Green=Tags(s)

MKENVASATVFTLLLFLNLTCLLNVPDPPELELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIR
 LKPEKAAEWEIHFAGQQTEFKILSLHPGQKYLQVVRCKPDHGYSAWSPATFIQIPSDFTMNDTTVWISV
 AVLSAVICLIIVWAVALKGYSMVTCIFPPVPGPKIKGFDHLLLEKKGSEELL SALGCQDFPPTSDYEDLL
 VEYLEVDDSEDQHLMSVHSKEHPSQGMKPTYLDPDTSGRGSCDSPSLLSEKCEEPQANPSTFYDPEVIE
 KPENPETHTWDPQCISMEGKIPYFHAGGSKCSTWPLPQPSQHNPRSSYHNI TDVCELAVGPAGAPATLL
 NEAGKDALKSSQTIKSREEGKATQQREVESFHSETDQDTPWLLPQEKTPFGSAKPLDYVEIHKVNDKDAL
 SLLPKQRENSGPKPKPGTPENNKEYAKVSGVMDNNILVLPDPHAKNVACFEESAKEAPPSLEQNQAEKA
 LANFTATSSKCRLLQLGGLDYLDPAFTHSFH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001204314

ORF Size: 1563 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_001204314.2](#)

RefSeq Size: 11066 bp

RefSeq ORF: 1566 bp

Locus ID: 5618

UniProt ID: [P16471](#)

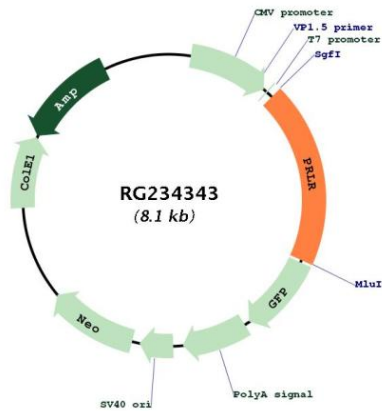
Cytogenetics: 5p13.2

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 RG234343