

Product datasheet for RC233840

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:	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:	>RC233840 representing NM_001204315 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAATG
GACAGTTACCTCCTGGAAAACCTGAGATCTTTAAATGTCGTTCTCCAATAAGGAAACATTCACCTGCTG
GTGGAGCCTGGGACAGATGGAGGACTTCTACCAATTATTCAGTACTTACCACAGGGAAGGAGAGACA
CTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCAACTCCTGCCACTTTGGCAAGCAGTACACCT
CCATGTGGAGGACATACATCATGATGGTCAATGCCACTAACAGATGGGAAGCAGTTTCTCGGATGAACT
TTATGTGGACGTGACTTACATAGTTCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAAGTAAAACAGCCA
GAAGACAGAAAACCTACCTGTGGATTAATGGTCTCCACCTACCTGATTGACTTAAAACTGGTTGGT
TCACGCTCCTGTATGAAATTCGATTAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTTGTGGGCA
GCAAACAGAGTTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGTCCAGGTTCCGTGCAAACCA
GACCATGGATACTGGAGTGCATGGAGTCCAGCGACCTTCATTAGATACCTAGTACTTACCATGAATG
ATACAACCGTGTGGATCTCTGTGGCTGCCTTTCTGCTGCATCTGTTTGATTATGTCTGGCAGTGCC
TTTGAAGGGCTATAGCATGGTGCCTGATCTTTCCGCCAGTTCTGGCCAAAAATAAAGGATTTGAT
GCTCATCTGTTGGAGAAGGGCAAGTCTGAAGAAGTACTGAGTGCCTTTGGGATGCCAAGACTTTCCTCCCA
CTTCTGACTATGAGGACTTGTGGTGGAGTATTTAGAAGTAGATGATAGTGAGGACCAGCATCTAATGTC
AGTCCATTCAAAAAGAACCCCAAGTCAAGAGAGAGAACAGCGGCAAGCCCAAGAAGCCCGGGACTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233840 representing NM_001204315
Red=Cloning site Green=Tags(s)

MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGT
 LMHECPDYITGGPNSCHFVKQYTSWRTYIMMVNATNQMGSFSDELVDVTVYIVQDPPLLEAVEVKQP
 EDRKPYLWIKWSPPTLIDLKTGWFLLYEIRLKEPEAAEWEIHFAGQQTEFKILSLHPGQKYLQVVRCKP
 DHGYWSAWSPATFIQIPSDFTMNDTTVWISVAVLSAVICLIIVAWAVALKGYSMVTCIFPPVPGPKIKGFD
 AHLLEKKGKSEELLSALGCQDFPPTSDYEDLLVEYLEVDDSEDQHLMVHSKEHPSQEREQRQAQEARDS

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_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

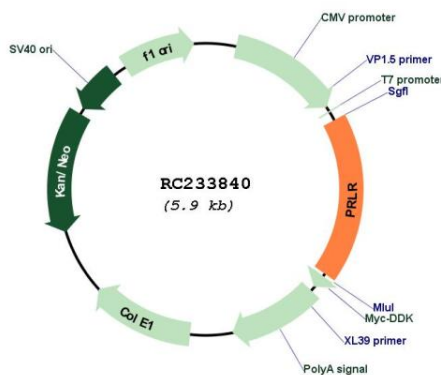
Protein Families: Druggable Genome, Transmembrane

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

MW: 40.3 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 RC233840