

Product datasheet for **SC331562**

Prolactin Receptor (PRLR) (NM_001204318) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prolactin Receptor (PRLR) (NM_001204318) Human Untagged Clone
Tag: Tag Free
Symbol: PRLR
Synonyms: HPRL; hPRLrI; MFAB; RI-PRLR
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331562 representing NM_001204318.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

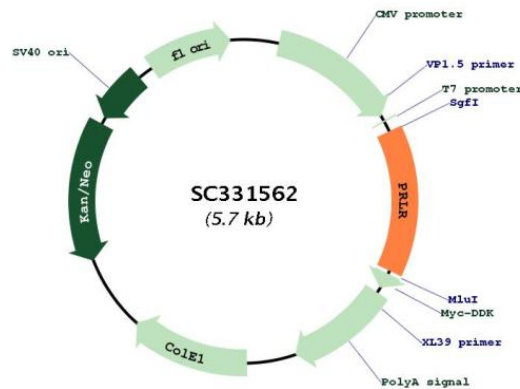
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ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCTACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAAT
GGACAGTTACCTCCTGGAAAACCTGAGATCTTTAAATGTCGTTCTCCCAATAAGGAAACATTCACCTGC
TGGTGGAGGCCTGGGACAGATGGAGGACTTCTACCAATTATTCACTGACTTACCACAGGGAAGGAGAG
ACACTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCAACTCCTGCCACTTTGGCAAGCAGTAC
ACCTCCATGTGGAGGACATACATCATGATGGTCAATGCCACTAACAGATGGGAAGCAGTTTCTCGGAT
GAACCTTATGTGGACGTGACTTACATAGTTCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAGTAAAA
CAGCCAGAAGACAGAAAACCTACTGTGGATTAATGGTCTCCACCTACCTGATTGACTTAAAAACT
GGTTGGTTCACGCTCCTGTATGAAATTCGATTAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTT
GCTGGGCAGCAAACAGAGTTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGCCAGGTTCCGC
TGCAAACCAGACCATGGATACTGGAGTGCATGGAGTCCAGCGACCTTCATTACAGATACCTAGTGGTGAC
CCCTTGATGTTGGGTGCCTCTCATTACAAAAATCTCAAATCTTACAGACCAAGAAAAATCTCAAGTCAA
GGAAGACTTGGGTGTTTCAAAAGGCAACATTGACCACAGTCCAGTAG
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001204318

Insert Size: 807 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 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](#)

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:	<ol style="list-style-type: none">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_001204318.1
RefSeq Size:	1461 bp
RefSeq ORF:	807 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:	30.7 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) is missing 3 consecutive exons, and contains an alternate 3' terminal exon compared to variant 1. This results in a frame-shift and a shorter isoform (5, also known as delta 7/11) with a distinct C-terminus compared to isoform 1. This isoform, lacking a transmembrane domain, but containing a complete extracellular binding domain, was shown to be a secreted, prolactin-binding protein (PMID:12580759).</p>