

Product datasheet for **SC331561**

Prolactin Receptor (PRLR) (NM_001204317) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prolactin Receptor (PRLR) (NM_001204317) Human Untagged Clone
Tag: Tag Free
Symbol: Prolactin Receptor
Synonyms: HPRL; hPRLrI; MFAB; RI-PRLR
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331561 representing NM_001204317.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCTACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAAT
GGACAGTTACCTCCTGGAAAACCTGAGATCTTTAAATGTCGTTCTCCCAATAAGGAAACATTACCTGC
TGGTGGAGGCCTGGGACAGATGGAGGACTTCTACCAATTATTCAGTACTTACCACAGGGAAGGAGAG
ACACTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCAACTCCTGCCACTTTGGCAAGCAGTAC
ACCTCCATGTGGAGGACATACATCATGATGGTCAATGCCACTAACAGATGGGAAGCAGTTTCTCGGAT
GAACCTTTATGTGGACGTGACTTACATAGTTCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAGTAAAA
CAGCCAGAAGACAGAAAACCTACTGTGGATTAATGGTCTCCACCTACCTGATTGACTTAAAAACT
GGTTGGTTCACGCTCCTGTATGAAATTCGATTAACCCGAGAAAAGCAGCTGAGTGGGAGATCCATTTT
GCTGGGCAGAAAACAGAGTTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGCCAGGTTTCGC
TGCAAACCCAGACCATGGATACTGGAGTGCATGGAGTCCAGCGACCTTCATTTCAGATACCTAGTGACTTC
ACCATGAATGATACAACCGTGTGGATCTCTGTGGCTGTCCTTTCTGTGTGATCTGTTTGATTATTGTC
TGGGCAGTGGCTTTGAAGGGCTATAGCATGGTACCTGCATCTTCCGCCAGTTCCTGGGCCAAAAATA
AAAGGATTTGATGCTCATCTGTTGGAGGTGACCCCTGA
```

Restriction Sites: Sgfl-Mlul
ACCN: NM_001204317
Insert Size: 867 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001204317.1](#)

RefSeq Size: 1631 bp

RefSeq ORF: 867 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: 32.8 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]
Transcript Variant: This variant (4) is missing an exon at the 3' end, and contains an alternate 3' terminal exon compared to variant 1. This results in a frame-shift and a shorter isoform (4, also known as SF1b for short form 1b) with a distinct C-terminus compared to isoform 1. This isoform is functional with a strong dominant-negative effect on the function of isoform 1 (PMID:12580759).