

Product datasheet for **SC104829**

Prolactin Receptor (PRLR) (AF493068) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prolactin Receptor (PRLR) (AF493068) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRLR
Synonyms:	HPRL; hPRLrI; MFAB
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AF493068, the custom clone sequence may differ by one or more nucleotides

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ATGCATGAATGTCAGACTACATAACCGGTGGCCCAACTCCTGCCACTTTGGCAAGCAGTACACCTCCA  
TGTGGAGGACATACATCATGATGGTCAATGCCACTAACCCAGATGGGAAGCAGTTTCTCGGATGAACCTTA  
TGTGGACGTGACTTACATAGTTCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAGTAAACAGCCAGAA  
GACAGAAAACCCTACCTGTGGATTAATGGTCTCCACCTACCCTGATTGACTTAAAACTGGTTGGTTCA  
CGCTCCTGTATGAAATTCGATTAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTTGTGGGCAGCA  
AACAGAGTTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGCCAGTTTCGCTGCAAACCAGAC  
CATGGATACTGGAGTGCATGGAGTCCAGCGACCTTCATTAGATACCTAGTGGTGACCCCTTGATGTTGG  
GTGCCTCTCATTACAAAATCTCAAATCTTACAGACCAAGAAAAATCTCAAGTCAAGGAAGACTTGCGGT  
GTTCAAAGGCAACATTGACCACAGTCCAGTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for AF493068 unedited NGGTAACCGTTTCATAATTTGTCATACGACTCACTATAGGGCGGCCGGAATTCGCACCAG GGGGACCGGGGAGCGGAGGCTGAAATCCCANACGCCGTTTTCTGGGCTGGGCTTTCTG CCTTACTCACTCCTTCTCCCTCTTTCTGGATTTTACCGACCGTTCGCGAAACAGCTTTCC ACACAAATGGAGCTTCATGTCCTCGTGCAGGAAGTACTCATCGACTGATGTGGCAGACTTT GCTCCCTGGCAAACTAAAGAACTCTCCTATTCATGGAGGCGAACACTGAGGATGCTTTT CACATGAACCCCTGAAGTGAAGTCTGATACATTTCTGCAGCAAGAGAAGGCAGCCAACA TGAAGGAAAAATGTGGCATCTGCAACCGTTTTCACTCTGCTACTTTTTCTCAACACCTGCC TTCTGAATGGACAGTTACCTCCTGGAAAACCTGAGATCTTTAAATGTCGTTCTCCAATA AGGAAACATTCACCTGCTGGTGGAGGCCTGGGACAGATGGAGGACTTCCTACCAATTATT CACTGACTTACCACAGGGAAGGAGAGACTCATGCATGAATGTCCAGACTACATAACCG GTGGCCCCAACTCCTGCCACTTTGGCAAGCAGTACACCTCCATGTGGAGGACATACATCA TGATGGTCAATGCCACTAACCAGATGGGAAGCAGTTTCTCGGATGAAGTTATGNTGGAC GTGACTTACATAGTTTCCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAAATAAACAGCCA GAAGACAGGAAACCCTACCTGTGGATTAATGGTCTCCACCTACCCTGATTGACTTAAAA ACTGGTTGGGTCACGCTCCTGTATGAAATTCGATTTAAAACCGGAGAAAGCGCT
Restriction Sites:	NotI-NotI
ACCN:	AF493068
Insert Size:	2500 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:	<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:	<u>AF493068.1</u> , <u>AAM11660.1</u>
RefSeq Size:	1206 bp
RefSeq ORF:	1206 bp
Locus ID:	5618
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]