

## Product datasheet for SC122581

### Prolactin (PRL) (NM\_000948) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prolactin (PRL) (NM_000948) Human Untagged Clone
Tag:	Tag Free
Symbol:	Prolactin
Synonyms:	GHA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_000948 edited  
GGGATCCTTATTCTATATCTCTGGTATTTAGTGTAATAAATTTTAAATCTTTACCTAGC  
AATCTTGAGGAAGAACTTGATAACTGATAATACATGAGATTGTTACCTAAGTGAATAT  
AATCCTATATATTCAACAACTTTAGAGAAATAAGATAAATTTTAAAGTAAATGACTTCT  
GTAGTTTTATAGATCCTCCAAACCAATCTAGTCTCAGATCTCACCTTCATCATTCTCTC  
ATTTCTTTTGGCCTAATTAATCAAAATCCTTCCTAGAATGTTTCATTTCTGGCCAGTATG  
TCTTCCTGAATATGAATAAGAAATAAAATACCATTGTGTTGAAATTATGGGGTAAT  
CTCAATGACGGAAATAGATGACCAGGAAAAGGAAACGAATGCCTGATTCAATATTTCA  
TGAAGATATCAAAGGTTTATAAAGCCAATATCTGGGAAAGAGAAAACCGTGAGACTTCCA  
GATCTTCTCTGGTGAAGTGTGTTTCTGCAACGATCACGAACATGAACATCAAAGGATCG  
CCATGGAAAGGGTCCCTCTGCTGCTGCTGGTGTCAAACCTGCTCCTGTGCCAGAGCGTG  
GCCCCCTTGCCATCTGTCCCGGGGGCTGCCGATGCCAGGTGACCCTTCGAGACCTG  
TTTGACCGCGCCGTCTGCTGCTCCACTACATCCATAACCTCTCCTCAGAAATGTTACAGC  
GAATTCGATAAACGGTATACCCATGGCCGGGGTTCATTACCAAGGCCATCAACAGCTGC  
CACACTTCTTCCCTTGCCACCCCGAAGACAAGGACCAAGCCCAACAGATGAATCAAAAA  
GACTTTCTGAGCCTGATAGTCAGCATATTGCGATCCTGGAATGAGCCTCTGTATCATCTG  
GTCACGGAAGTACGTGGTATGCAAGAAGCCCGGAGGCTATCCTATCCAAAGCTGTAGAG  
ATTGAGGAGCAAACCAACGGCTTCTAGAGGGCATGGAGCTGATAGTCAGCCAGGTTTCAT  
CCTGAAACCAAAGAAAATGAGATCTACCCTGTCTGGTGGGACTTCCATCCCTGCAGATG  
GCTGATGAAGAGTCTCGCTTTCTGCTTATTATAACCTGCTCCACTGCCTACGCAGGGAT  
TCACATAAAATCGACAATTATCTCAAGCTCCTGAAGTGCCGAATCATCCACAACAACAAC  
TGCTAAGCCACATCCATTTCTATCTATTCTGAGAAGGTCCTTAATGATCCGTTCCATTG  
CAAGCTCTTTTAGTTGTATCTCTTTGAATCCATGCTTGGGTGAACAGGTCTCCTCTT  
AAAAAATAAAACTGACTCCTTAGAGACATCAAAATCCAAAAAATAAAAAAAAAAAAAA  
AAAAAATA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000948 unedited CGTCANAATTTGTATACGACTCATATAGGGCGGCCGGAATCGGCCATTACGGCCGGGAT CCTTATTCTATATCTCTTGGTATTTAGTGTAATAATTTTAAAAATCTTTACCTAGCAATCT TGAGGAAGAACTTGATAACTGATAATACATGAGATTGTTACCTAAGTAAATATAATCC TATATATTCAACAACTTTAGAGAAATAAGATAAATTTTAAAGTAAATGACTTCTGTAGT TTTATAGATCCTCCAAACCAATCTAGTCTCAGATCTCACCTTCATCATTCTCTCATTTC CTTTGGCCTAATTAATCAAAATCCTTCCTAGAATGTTTCATTTCTGGCCAGTATGTCTTC CTGAATATGAATAAGAAAATAAAATACCATTTGATGTTTGAATATGGGGTAATCTCAA TGACGGAATAGATGACCAGGAAAAGGGAACGAATGCCTGATTATATTATCATGAAG ATATCAAAGGTTTATAAAGCCAATATCTGGGAAAGAGAAAACCGTGAGACTTCCAGATCT TCTCTGGTGAAGTGTGTTTCTGCAACGATCACGAACATGAACATCAAAGGATCGCCATG GAAAGGGTCCCTCCTGCTGCTGCTGGTGTCAAACCTGCTCCTGTGCCAGAGCGTGGCCCC CTTGCCCATCTGTCCCGCGGNGCTGCCCGATGCCAGGTGACCCTTCGAGACCTGTTTGA CCGCGCCGTCGTCTGTCCCACTACATCCATAACCTCTCCTCAGAAATGTTCCAGCGAATT CGATAAACGGTATACCCATGGGCGGGGTTTCATTACCAAGGCCATCAACAGCTGCCACA CTTTCTCCCTTGCCACCCCGAAGAACAGGAGCAAGCCCAACAGATGAATCAAAAAGAC TTTCTGAGCCTGATAGTCAGCATATTGCGATCCTG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000948
<b>Insert Size:</b>	1400 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000948.2</a> , <a href="#">NP_000939.1</a>
<b>RefSeq Size:</b>	1388 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	5617
<b>UniProt ID:</b>	<a href="#">P01236</a>
<b>Cytogenetics:</b>	6p22.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein

- Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction
- Gene Summary:** This gene encodes the anterior pituitary hormone prolactin. This secreted hormone is a growth regulator for many tissues, including cells of the immune system. It may also play a role in cell survival by suppressing apoptosis, and it is essential for lactation. Alternative splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Aug 2011]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.