

## Product datasheet for **RG205627**

### Prolactin (PRL) (NM\_000948) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prolactin (PRL) (NM_000948) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prolactin
Synonyms:	GHA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205627 representing NM_000948 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACATCAAAGGATCGCCATGGAAAGGGTCCCTCCTGCTGCTGCTGGTGTCAAACCTGCTCCTGTGCC  
AGAGCGTGGCCCCCTTGCCCATCTGTCCCGCGGGGCTGCCCGATGCCAGGTGACCCTTCGAGACCTGTT  
TGACCGCGCCGTCGTCTGTCCCACTACATCCATAACCTCTCCTCAGAAATGTTACGCGAATTCGATAAA  
CGGTATACCCATGGCCGGGGTTCATTACCAAGGCCATCAACAGCTGCCACACTTCTCCCTTGCCACCC  
CCGAAGACAAGGAGCAAGCCCAACAGATGAATCAAAAAGACTTTCTGAGCCTGATAGTCAGCATATTGCG  
ATCCTGGAATGAGCCTCTGTATCATCTGGTCACGGAAGTACGTGGTATGCAAGAAGCCCGGAGGCTATC  
CTATCCAAAGCTGTAGAGATTGAGGAGCAAACCAACGGCTTCTAGAGGGCATGGAGCTGATAGTCAGCC  
AGGTTTCCTGAAACCAAGAAAATGAGATCTACCCTGTCTGGTCGGGACTTCCATCCCTGCAGATGGC  
TGATGAAGAGTCTCGCCTTTCTGCTTATTATAACCTGCTCCACTGCCTACGCAGGGATTACATAAAATC  
GACAATTATCTCAAGCTCCTGAAGTGCCGAATCATCCACAACAACACTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205627 representing NM\_000948  
 Red=Cloning site Green=Tags(s)

MNIKGGSPWKGSLLLLLVSNLLLCQSVAPLPICPGGAARCQVTLRDLFDRAVVLSHYIHNLSSSEMFSEFDK  
 RYTHGRGFITKAINSCHTSSLATPEDKEQAQQMNQKDFLSLIVSLRSWNEPLYHLVTEVRGMQEAPAI  
 LSKAVEIEEQTKRLLLEGMELIVSQVHPETKENEIYPVWSGLPSLQMADEESRLSAYYNLLHCLRRDSHKI  
 DNYLKLLKCRIIHNNNC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000948

**ORF Size:** 681 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\\_000948.6](#)

**RefSeq Size:** 1388 bp

**RefSeq ORF:** 684 bp

**Locus ID:** 5617

**UniProt ID:** [P01236](#)

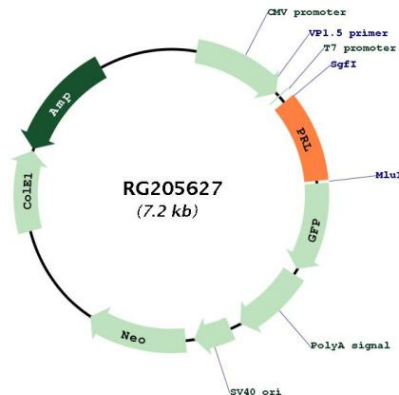
**Cytogenetics:** 6p22.3

**Protein Families:** 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]

### Product images:



Circular map for RG205627