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Product datasheet for RG233597

Prolactin Receptor (PRLR) (NM_001204318) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prolactin Receptor (PRLR) (NM_001204318) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRLR
Synonyms:	HPRL; hPRLrI; MFAB; RI-PRLR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG233597 representing NM_001204318
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAATG
GACAGTTACCTCCTGGAAAACCTGAGATCTTTAAATGTCGTTCTCCCAATAAGGAAACATTCACCTGCTG
GTGGAGGCCTGGGACAGATGGAGGACTTCCTACCAATTATTCACTGACTTACCACAGGGAAGGAGAGACA
CTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCCAACTCCTGCCACTTTGGCAAGCAGTACACCT
CCATGTGGAGGACATACATCATGATGGTCAATGCCACTAACCAGATGGGAAGCAGTTTCTCGGATGAACT
TTATGTGGACGTGACTTACATAGTTCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAGTAAAACAGCCA
GAAGACAGAAAACCCTACCTGTGGATTAAATGGTCTCCACCTACCCTGATTGACTTAAAAACTGGTTGGT
TCACGCTCCTGTATGAAATTCGATTAAAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTTGCTGGGCA
GCAAACAGAGTTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGTCCAGGTTCGCTGCAAACCA
GACCATGGATACTGGAGTGCATGGAGTCCAGCGACCTTCATTCAGATACCTAGTGGTGACCCCTTGATGT
TGGGTGCCTCTCATTACAAAAATCTCAAATCTTACAGACCAAGAAAAATCTCAAGTCAAGGAAGACTTGC
GGTGTTCACAAAGGCAACATTGACCACAGTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

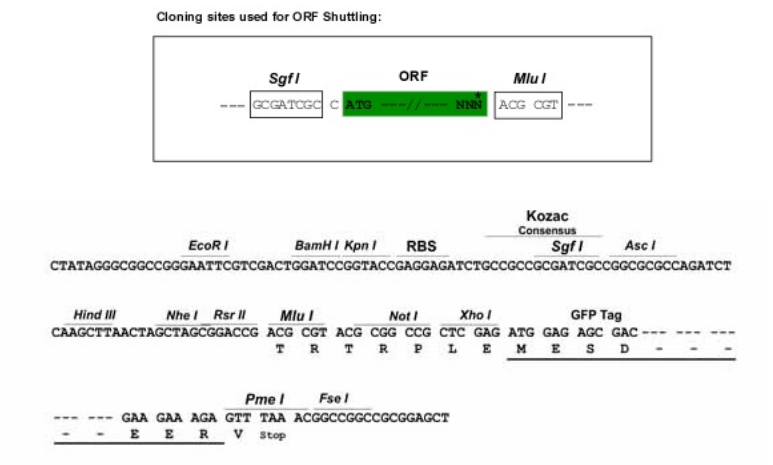
>RG233597 representing NM_001204318
Red=Cloning site Green=Tags(s)

MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGET
LMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNATNQMGSSFSDELYVDVTYIVQPDPPLELAVEVKQP
EDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQTEFKILSLHPGQKYLVQVRCKP
DHGYWSAWSPATFIQIPSGDPLMLGASHYKNLKSYRPRKISSQGRLAVFTKATLTTVQ

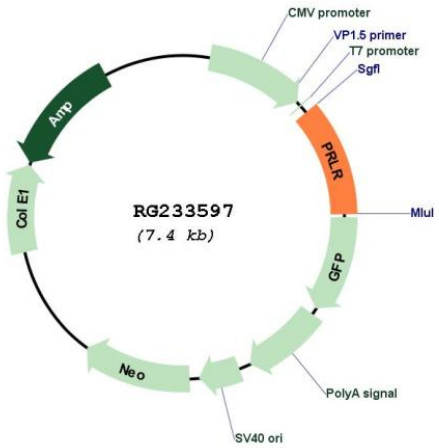
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001204318

ORF Size: 804 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
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_001204318.1, NP_001191247.1
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
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]