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Product datasheet for RC210917

GPR10 (PRLHR) (NM_004248) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR10 (PRLHR) (NM_004248) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR10
Synonyms:	GPR10; GR3; PrRPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC210917 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCATCGACCACTCGGGGCCCCAGGGTTTCTGACTTATTTTCTGGGCTGCCGCCGGCGGTCACAA
CTCCCGCCAACCAGAGCGCAGAGGCCTCGGCGGGCAACGGGTCGGTGGCTGGCGCGGACGCTCCAGCCGT
CACGCCCTTCCAGAGCCTGCAGCTGGTGCATCAGCTGAAGGGGCTGATCGTGCTGCTCTACAGCGTCGTG
GTGGTCGTGGGGCTGGTGGGCAACTGCCTGCTGGTGCTGGTGATCGCGCGGGTGCGCCGGCTGCACAACG
TGACGAACTTCCTCATCGGCAACCTGGCCTTGTCCGACGTGCTCATGTGCACCGCCTGCGTGCCGCTCAC
GCTGGCCTATGCCTTCGAGCCACGCGGCTGGGTGTTCGGCGGCGGCCTGTGCCACCTGGTCTTCTTCCTG
CAGCCGGTCACCGTCTATGTGTCGGTGTTCACGCTCACCACCATCGCAGTGGACCGCTACGTCGTGCTGG
TGCACCCGCTGAGGCGGCGCATCTCGCTGCGCCTCAGCGCCTACGCTGTGCTGGCCATCTGGGCGCTGTC
CGCGGTGCTGGCGCTGCCCGCCGCCGTGCACACCTATCACGTGGAGCTCAAGCCGCACGACGTGCGCCTC
TGCGAGGAGTTCTGGGGCTCCCAGGAGCGCCAGCGCCAGCTCTACGCCTGGGGGCTGCTGCTGGTCACCT
ACCTGCTCCCTCTGCTGGTCATCCTCCTGTCTTACGTCCGGGTGTCAGTGAAGCTCCGCAACCGCGTGGT
GCCGGGCTGCGTGACCCAGAGCCAGGCCGACTGGGACCGCGCTCGGCGCCGGCGCACCTTCTGCTTGCTG
GTGGTGGTCGTGGTGGTGTTCGCCGTCTGCTGGCTGCCGCTGCACGTCTTCAACCTGCTGCGGGACCTCG
ACCCCCACGCCATCGACCCTTACGCCTTTGGGCTGGTGCAGCTGCTCTGCCACTGGCTCGCCATGAGTTC
GGCCTGCTACAACCCCTTCATCTACGCCTGGCTGCACGACAGCTTCCGCGAGGAGCTGCGCAAACTGTTG
GTCGCTTGGCCCCGCAAGATAGCCCCCCATGGCCAGAATATGACCGTCAGCGTGGTCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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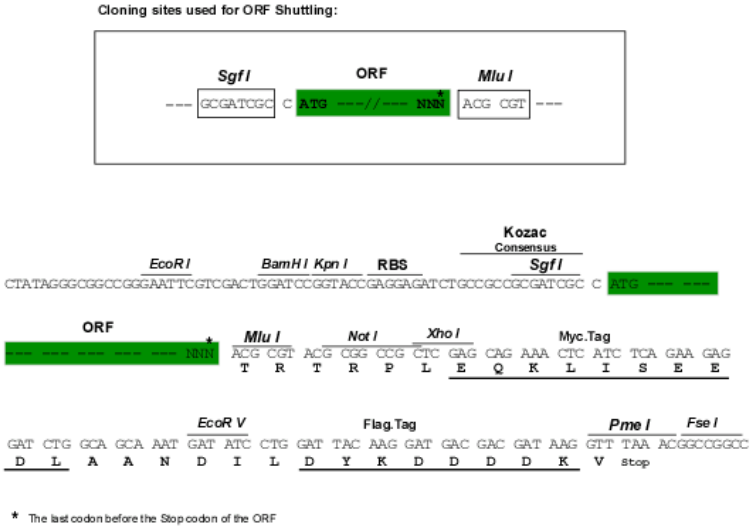
Protein Sequence:

```
>RC210917 protein sequence
Red=Cloning site Green=Tags(s)

MASSTTRGPRVSDLFSGLPPAVTTPANQSAEASAGNGSVAGADAPAVTPFQSLQLVHQLKGLIVLLYSVV
VVVGLVGNCLLVLVIARVRRLHNVTNFLIGNLALSDVLMCTACVPLTLAYAFEPRGWVFGGGLCHLVFFL
QPVTVYVSVFTLTTIAVDRYVVLVHPLRRRISLRLSAYAVLAIWALSAVLALPAAVHTYHVELKPHDVRL
CEEFWGSQERQRQLYAWGLLLVTYLLPLLVILLSYVRVSVKLRNRVVPGCVTQSQADWDRARRRRTFCLL
VVVVVVFAVCWLPLHVFNLLRDLDPHAIDPYAFGLVQLLCHWLAMSSACYNPFIYAWLHDSFREELRKLL
VAWPRKIAPHGQNMTVSVVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Chromatograms: https://cdn.origene.com/chromatograms/mk6591_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004248

ORF Size: 1110 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).

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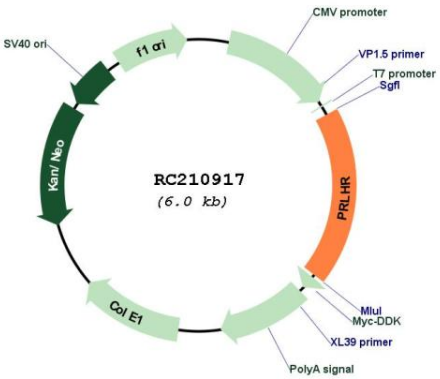
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004248.2
RefSeq Size:	1980 bp
RefSeq ORF:	1113 bp
Locus ID:	2834
UniProt ID:	P49683
Cytogenetics:	10q26.11
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	41.1 kDa
Gene Summary:	PRLHR is a 7-transmembrane domain receptor for prolactin-releasing hormone (PRLH; MIM 602663) that is highly expressed in anterior pituitary (Ozawa et al., 2002 [PubMed 11923475]). [supplied by OMIM, Mar 2008]

Product images:



Circular map for RC210917

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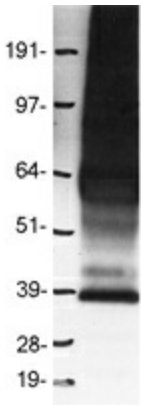

Western blot validation of overexpression lysate (Cat# [LY418118]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210917 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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