

## Product datasheet for **RC223227**

### **GPR 150 (GPR150) (NM\_199243) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPR 150 (GPR150) (NM_199243) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR 150
Synonyms:	PGR11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC223227 representing NM\_199243  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGATCTCTTAGCCCTCAATTCTGCCCGCGGCCAACATTTCCGTGCCATCTTGCTGGGCT  
 GGGTCTCAACCTGACCTTGGGGCAAGGAGCCCTGCCTCTGGCCGCCAGCCGCCGCTCCGCCTGGT  
 GTTCTGGGGTATCCTGGTGGTGGCGGTGGCAGCAACACCACAGTGTGTGCCGCTGTGCCGCGG  
 GGCGGGCCCTGGGCGGGCCCAAGCGTCGCAAGATGGACTTCTGCTGGTGCAGCTGGCCCTGGCGGACC  
 TGTACGCGTGGGGGACGCGGCTGTACAGCTGGCCTGGAACTGCTGGGCGAGCCCCGCGGGCCAC  
 GGGGACCTGGCGTCCGCTTCTGCAGCTGTGCAGGCATCCGGGCGGGGCGCTCGGCCACCTCGTG  
 GTGCTCATCGCCCTGAGCGCCGCGCGGTGCGTCTCCGCACGGCCGGCGCTGCCCGCGGTGCC  
 TCGCCGCCCTGGCTGGCTGCTGGCACTGCTGCTGGCGTCCCCGGCCTTCGTGGTGCAGGGGACTC  
 CCCCTCGCGCTGCCGCCCGCGCCGCAACGTCCCTGCAGCCAGGCGGCCCGGGCGCCCGCGCC  
 TGCCCGGGGAGCGTCCGTGCCACGGGATCTTCGCGCCCTGCCGCGTGGCACCTGCAGGTCTACGCGT  
 TCTACGAGGCCGTCGCGGCTTCGTGCGCCTGTTACGGTCTGGGCGTGGCTTCGCGCCACCTACTCTC  
 CGTCTGGTGGCGGACCGGCCGACAGCCCCGCGGCTGCAGCGCCTGGTGGCGAGCCAGGTCGAGCC  
 CCTGCGCCAGCGCGTCCCGCGCCAAGGTGCAGAGCCTGAAGATGAGCCTGTGCTGGCGTGTGT  
 TCGTGGGTGCGAGTGCCTACTTTGCCCGCCGGCTGGCGGCCGCTGGTGTCCGGGCCCCGGGAGA  
 CTGGGAGGAGAGGGCTGTCCGGCGGCTGCGCGTGGTGGCGATGGCCAAACAGCGCTCTCAATCCCTTC  
 GTCTACCTTCTTCCAGCGGGGCGACTGCCGGTCCGGCGACAGCTGCGGAAGCGGCTGGGCTCTCTGT  
 GCTGCGCGCCGAGGGAGCGCGGAGGACGAGGAGGGGCCCGGGGCCACCAGGCGCTTACCGCCAAACG  
 CTGGCCCCACCCTCATTATCACCATGCTCGGCGGGAACCCTGGACGAGGCGGGCTTCGCGCCACCCT  
 CCGCGCCCAGACCCCTGCCTTGTCTGCGAAAGTGCCTTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC223227 representing NM\_199243  
 Red=Cloning site Green=Tags(s)

MEDLFSPSILPPAPNISVPILLGWLNLTGQGAPASGPPSRVRLVFLGVILVVAVAGNTTVLCRLCGG  
 GGPWAGPKRRKMDFLVQLALADLYACGGTALSQAWELLGEPRAATGDLACRFLQLQASGRGASAHV  
 VLIALERRRAVRLPHGRPLPARALALGWLALLLALPPAFVVRGDSPLPPPPPTSLQPGAPPAARA  
 WPGERRCHGIFAPLPRWHLQVYAFYEAVAGFVAPVTVLGVACGHLLSVWWRHRPQAPAAAAPWSASPGRA  
 PAPSALPRAKVQSLKMSLLLALLFVGCCLPYFAARLAAWSSGPAGDWEGLSAALRVVAMANSALNPF  
 VYLFQAGDCRLRRQLRKRLGSLCCAPQGAEEEGPRGHQALYRQRWPHPHYHHARREPLDEGGLRPPP  
 PRPRPLPCSESAF

**SGP**TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6187\\_c02.zip](https://cdn.origene.com/chromatograms/mk6187_c02.zip)

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_199243

**ORF Size:** 1302 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\\_199243.3](#)

**RefSeq Size:** 1305 bp

**RefSeq ORF:** 1305 bp

**Locus ID:** 285601

**UniProt ID:** [Q8NGU9](#)

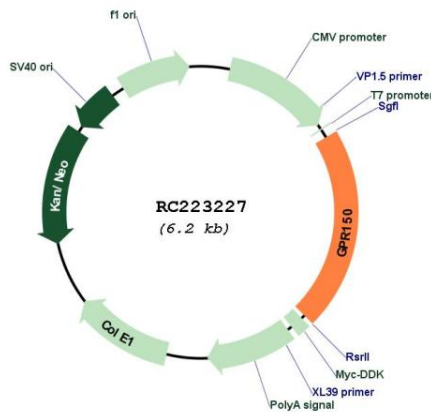
**Cytogenetics:** 5q15

**Protein Families:** Druggable Genome, Transmembrane

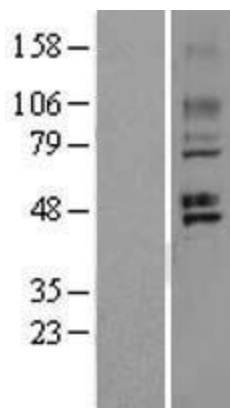
**MW:** 46.2 kDa

**Gene Summary:** This gene encodes an orphan member of the class A rhodopsin-like family of G-protein-coupled receptors (GPCRs). Within the rhodopsin-like family, this gene is a member of the vasopressin-like subfamily that also includes vasopressin and oxytocin receptors. The silencing of this gene, due to promoter methylation, is associated with ovarian cancer progression. All GPCRs have a transmembrane domain that includes seven transmembrane alpha-helices. A general feature of GPCR signaling is the agonist-induced conformational change in the receptor, leading to activation of the heterotrimeric G protein. The activated G protein then binds to and activates numerous downstream effector proteins, which generate second messengers that mediate a broad range of cellular and physiological processes. [provided by RefSeq, Jul 2017]

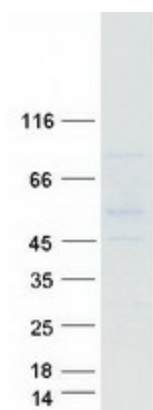
**Product images:**



Circular map for RC223227



Western blot validation of overexpression lysate (Cat# [LY403711]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223227 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPR150 protein (Cat# [TP323227]). The protein was produced from HEK293T cells transfected with GPR150 cDNA clone (Cat# RC223227) using MegaTran 2.0 (Cat# [TT210002]).