

## Product datasheet for **RC234680**

### Progesterone Receptor (PGR) (NM\_001271161) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Progesterone Receptor (PGR) (NM_001271161) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Progesterone Receptor
Synonyms:	NR3C3; PR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234680 representing NM\_001271161  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAGCCGGTCCGGGTGCAAGGTTGGAGACAGCTCCGGGACGGCAGCTGCCATAAAGTGTGCCCGGG  
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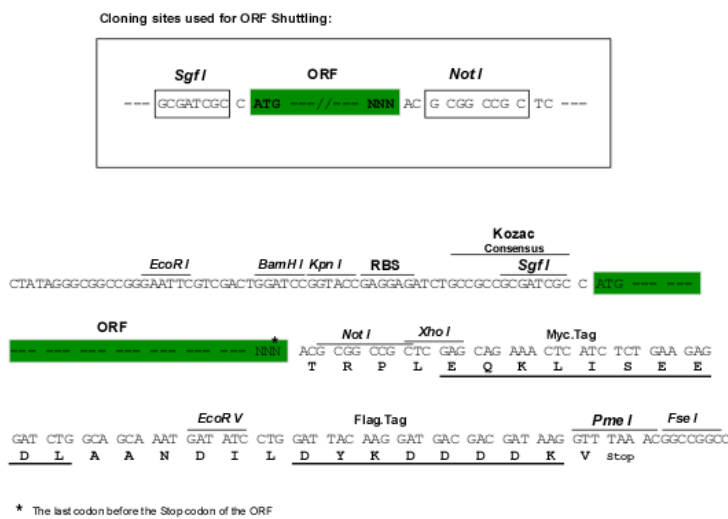
**Protein Sequence:** >RC234680 representing NM\_001271161  
 Red=Cloning site Green=Tags(s)

```
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PLLK GKPRALGGAAAGGAAAVPPGAAAGGVALVPKEDSRFSAPRVALVEQDAPMAPGRSPLATTVMDFI
HVPILPLNHALLAARTRQLLEDES YDGGAGAASAFAPRSPPCASSTPVAVGDFPDCA YPPDAEPKDDAY
PLYSD FQP PALKI EEEEEGAEASARSPR SYLVAGANPAAFP DFP L GPP P L PPRATPSRPG EAAVT A A P A
SASVSSASSSGSTLECILYKAEGAPPQQGPFAPPPCKAPGASGCLLPDGLPSTASAAAAGAALYPA
LGLNGLPQLGYQAAVLKEGLPQVYPPYLNLYRPDSEASQSPQYSFESLPQKICLCIGDEASGCHYGLVTC
GSCKVFFKRAMEGQHNYLCAGRNDICVDKIRRNKCPACRLRKCCQAGMVLGGFRNLHIDDQITLIQYSWM
SLMVFGLGWRSYKHVSGQMLYFAPDLILNEQRMKESSFYSLCLTMWQIPQEFVKLQVSQEEFLCMKVL L L L
LNTIPLEGLRSQTQFEEMRSSYIREL IKAIGLRQKGVVSSSRFYQLTKLLDNLHDLVKQLHL YCLNTFI
QSRALSVEFPEMMSEVIAAQLPKILAGMVKPLLFHKK
```

TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-NotI

**Cloning Scheme:**



**ACCN:** NM\_001271161

**ORF Size:** 2001 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\\_001271161.2](#), [NP\\_001258090.1](#)

**RefSeq Size:** 11981 bp

**RefSeq ORF:** 2004 bp

**Locus ID:** 5241

**UniProt ID:** [P06401](#)

**Cytogenetics:** 11q22.1

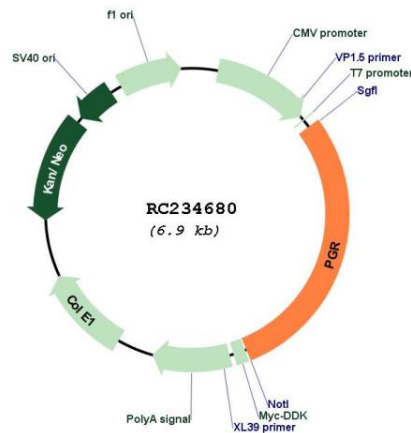
**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Protein Pathways:** Oocyte meiosis, Progesterone-mediated oocyte maturation

**MW:** 71.5 kDa

**Gene Summary:** This gene encodes a member of the steroid receptor superfamily. The encoded protein mediates the physiological effects of progesterone, which plays a central role in reproductive events associated with the establishment and maintenance of pregnancy. This gene uses two distinct promoters and translation start sites in the first exon to produce several transcript variants, both protein coding and non-protein coding. Two of the isoforms (A and B) are identical except for an additional 165 amino acids found in the N-terminus of isoform B and mediate their own response genes and physiologic effects with little overlap. [provided by RefSeq, Sep 2015]

### Product images:



Circular map for RC234680