

## Product datasheet for **RC234706**

### Glucocorticoid Receptor (NR3C1) (NM\_001204261) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_001204261) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glucocorticoid Receptor
Synonyms:	GCCR; GCR; GCRST; GR; GRL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234706 representing NM\_001204261  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAAATGACCTGGGATTCCACAGCAGGGCCAAATCAGCCTTTCCTCGGGGAAACAGACTTAAAGC  
 TTTTGGAAAGAAAGCATTGCAAACCTCAATAGGTCGACCAGTGTTCCAGAGAACCCCAAGAGTTCAGCATC  
 CACTGCTGTGTCTGCTGCCCCACAGAGAAGGAGTTTCCAAAACTCACTCTGATGTATCTTCAGAACAG  
 CAACATTTGAAGGGCCAGACTGGCACCAACGGTGGCAATGTGAAATTGTATACCACAGACCAAAGCACCT  
 TTGACATTTTGCAGGATTTGGAGTTTTCTTCTGGGTCCCAGGTAAGAGACGAATGAGAGTCTTTGGAG  
 ATCAGACCTGTTGATAGATGAAACTGTTTCTTCTCTCTGGCGGAGAAGACGATTCATTCTTTTTG  
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 GAGATCTGGTTTTGTCAAGCCCCAGTAATGTAACACTGCCCAAGTAAAAACAGAAAAAGAAGATTTTCAT  
 CGAACTCTGCACCCTGGGGTAATTAAGCAAGAGAAACTGGGCACAGTTTACTGTCAGGCAAGCTTTCCT  
 GGAGCAAATATAATTGGTAATAAAATGTCTGCCATTTCTGTTTCATGGTGTGAGTACCTCTGGAGGACAGA  
 TGTACCACTATGACATGAATACAGCATCCCTTTCTCAACAGCAGGATCAGAAGCCTATTTTTAATGTCAT  
 TCCACCAATTCCTGGTTCCGAAAATTTGGAATAGGTGCCAAGGATCTGGAGATGACAACCTTGACTTCT  
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 ATGTAAGCTCTCCTCCATCCAGCTCCTCAACAGCAACAACAGGACCACCTCCCAAACCTCTGCCTGGTGTG  
 CTCTGATGAAGCTTCAGGATGTCATTATGGAGTCTTAACCTGTGGAAGCTGTAAGTTTTCTTCAAAGA  
 GCAGTGGAAAGGACAGCACAATTACCTATGTGCTGGAAGGAATGATTGCATCATCGATAAAATTCGAAGAA  
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 CACCTGGATGACCAAATGACCCTACTGCAGTACTCCTGGATGTTTCTTATGGCATTGCTCTGGGGTGA  
 GATCATATAGACAATCAAGTGCAAACCTGCTGTGTTTTGCTCCTGATCTGATTATTAATGAGCAGAGAAT  
 GACTCTACCCTGCATGTACGACCAATGTAACACATGCTGTATGTTTCTCTGAGTTACACAGGCTTCAG  
 GTATCTTATGAAGAGTATCTCTGTATGAAAACCTTACTGCTTCTCTTTCAGTTCTTAAGGACGGTCTGA  
 AGAGCCAAGAGCTATTTGATGAAATTAGAATGACCTACATCAAAGAGCTAGGAAAAGCCATTGTCAAGAG  
 GGAAGGAAACTCCAGCCAGAACTGGCAGCGTTTTATCAACTGACAAAACCTTTGGATTCTATGCATGAA  
 GTGGTTGAAAATCTCTTAACCTATTGCTTCAAACATTTTTGGATAAGACCATGAGTATTGAATCCCCG  
 AGATGTTAGCTGAAATCATACCAATCAGATACAAAAATTTCAAATGAAATATCAAAAAACTTCTGTT  
 TCATCAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234706 representing NM\_001204261  
Red=Cloning site Green=Tags(s)

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MGNDLGFPPQQGISLSSGETDLKLLSESIANLNRSTSVPENPKSSASTAVSAAPTEKEFPKTHSDVSSEQ
QHLKGGQTNGGNVLYTTDQSTFDILQDLEFSSGSPGKETNESPWRSDDLIDENCLLSPLAGEDDSFLL
EGNSNEDCKPLILPDTKPKIKDNGDLVSSPSNVTLPOVKTEKEDFIELCTPGVIKQEKLGTVYCOASFP
GANIIGNKMSAISVHGVSTSGGQMYHYDMNTASLSQQDQKPIFNVIPPVPGSENWNRQCQSGDDNLTSL
LGTLNFPGRTVFSNGYSSPSMRPDVSSPPSSSTATTGPPPKLCLVCSEASGCHYGVLTCGSCKVFFKR
AVEGQHNYLCAGRNDICIIDKIRRNKCPACRYRKLQAGMNLARKTKKKIKGIQQATTGVSQETSENPNGN
KTIVPATLPQLTPTLVSLLEVIEPEVLVYAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNL
HLDDQMTLLQYSWMFLMAFALGWSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSELHRLQ
VSYEEYLCMKTLTLLSSVPKDGKLSQELFDEIRMTYIKELGKAIKREGNSSQNWQRFYQLTKLLDSMHE
VVENLLNYCFQTFLDKTMSEIEFPEMLAEIITNQIPKYSNGNIKKLLFHQK
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001204261

**ORF Size:** 2040 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\\_001204261.2](#)

**RefSeq Size:** 6801 bp

**RefSeq ORF:** 2043 bp

**Locus ID:** 2908

**UniProt ID:** [P04150](#)

**Cytogenetics:** 5q31.3

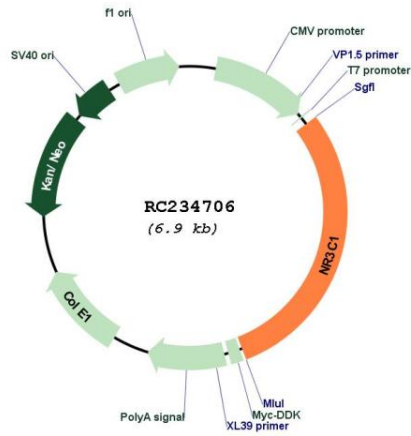
**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 75.8 kDa

**Gene Summary:** This gene encodes glucocorticoid receptor, which can function both as a transcription factor that binds to glucocorticoid response elements in the promoters of glucocorticoid responsive genes to activate their transcription, and as a regulator of other transcription factors. This receptor is typically found in the cytoplasm, but upon ligand binding, is transported into the nucleus. It is involved in inflammatory responses, cellular proliferation, and differentiation in target tissues. Mutations in this gene are associated with generalized glucocorticoid resistance. Alternative splicing of this gene results in transcript variants encoding either the same or different isoforms. Additional isoforms resulting from the use of alternate in-frame translation initiation sites have also been described, and shown to be functional, displaying diverse cytoplasm-to-nucleus trafficking patterns and distinct transcriptional activities (PMID:15866175). [provided by RefSeq, Feb 2011]

Product images:



Circular map for RC234706