

## Product datasheet for **RG234170**

### Glucocorticoid Receptor (NR3C1) (NM\_001204262) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_001204262) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glucocorticoid Receptor
Synonyms:	GCCR; GCR; GCRST; GR; GRL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234170 representing NM\_001204262  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCCATTTCTGTTTCATGGTGTGAGTACCTCTGGAGGACAGATGTACCACTATGACATGAATACAG  
 CATCCCTTTCTCAACAGCAGGATCAGAAGCCTATTTTTAATGTCATTCCACCAATCCCCTGGTCCGA  
 AAATTGGAATAGGTGCCAAGGATCTGGAGATGACAACCTGACTTCTCTGGGGACTCTGAACCTCCCTGGT  
 CGAACAGTTTTTTCTAATGGCTATTCAAGCCCCAGCATGAGACCAGATGTAAGCTCTCTCCATCCAGCT  
 CCTCAACAGCAACAACAGGACCCTCCAAACTCTGCCTGGTGTGCTCTGATGAAGCTTCAGGATGTCA  
 TTATGGAGTCTTAACTTGTGAAGCTGTAAGTTTTCTTCAAAGAGCAGTGAAGGACAGCACAATTAC  
 CTATGTGCTGGAAGGAATGATTGCATCATCGATAAAAATTCGAAGAAAAAACTGCCAGCATGCCGCTATC  
 GAAAATGTCTTCAGGCTGGAATGAACCTGGAAGCTCGAAAAACAAGAAAAAAATAAAAGGAATTCAGCA  
 GGCCACTACAGGAGTCTACAAGAAACCTCTGAAAATCCTGGTAACAAAACAATAGTTCCCTGCAACGTTA  
 CCACAACCTCACCCCTACCTGGTGTCACTGTTGGAGGTTATTGAACCTGAAGTGTATATGCAGGATATG  
 ATAGCTCTGTTCCAGACTCAACTGGAGGATCATGACTACGCTCAACATGTTAGGAGGGCGCAAGTGAT  
 TGCAGCAGTGAATGGGCAAAGGCAATACCAGTTTTAGGAACTTACACCTGGATGACCAATGACCCTA  
 CTGCAGTACTCCTGGATGTTTCTTATGGCATTGCTCTGGGGTGGAGATCATATAGACAATCAAGTGCAA  
 ACCTGTGTGTTTTGCTCCTGATCTGATTATTAATGAGCAGAGAATGACTCTACCTGCATGTACGACCA  
 ATGTAACACATGCTGTATGTTTCTCTGAGTTACACAGGCTTCAGGTATCTTATGAAGAGTATCTCTGT  
 ATGAAAACCTTACTGCTTCTCTCTTCAAGTTCCTAAGGACGGTCTGAAGAGCCAAGAGCTATTTGATGAAA  
 TTAGAATGACCTACATCAAAGAGCTAGGAAAAGCCATTGTCAAGAGGGAAGGAAACTCCAGCCAGAATG  
 GCAGCGGTTTTATCAACTGACAAAACCTTGGATTCTATGCATGAAGTGGTTGAAAATCTCCTTAACTAT  
 TGCTTCAAACATTTTTGGATAAGACCATGAGTATTGAATTCCTCCGAGATGTTAGCTGAAATCATACCA  
 ATCAGATACAAAATATTCAAATGGAAATATCAAAAAACTTCTGTTTCATCAAAAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234170 representing NM\_001204262  
 Red=Cloning site Green=Tags(s)

MSAISVHGVSTSGGQMYHYDMNTASLSQQDQKPIFNVIPIPVGSENNRCQGSDDNLTSLGTLNFPG  
 RTVFSNGYSSPSMRPDVSSPPSSSSTATGPPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNY  
 LCAGRNDICIIDKIRRNKCPACRYRKCLQAGMNLARKTKKKIKIGIQATTGVSQETSENPNGKTIVPATL  
 PQLTPTLVSLLEVIEPEVL YAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTL  
 LQYSWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSSELHRLQVSYEEYLC  
 MKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIVKREGNSSQNWRFYQLTKLLDSMHEVVENLLNY  
 CFQTFLDKTMSEIEFPEMLAEIITNQIPKYSNGNIKKLLFHQK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001204262

**ORF Size:** 1386 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\\_001204262.2](#)

**RefSeq Size:** 6801 bp

**RefSeq ORF:** 1389 bp

**Locus ID:** 2908

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

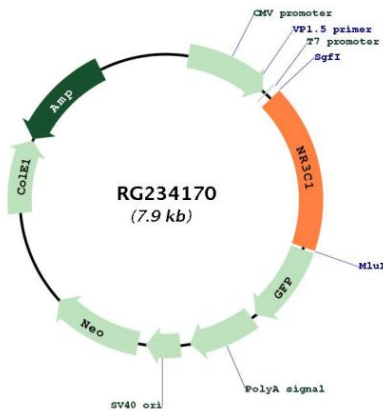
**Cytogenetics:** 5q31.3

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

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

**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 RG234170