

## Product datasheet for **RG234726**

### Glucocorticoid Receptor (NR3C1) (NM\_001204259) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_001204259) 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:**

>RG234726 representing NM\_001204259  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGACTGTATATGGGAGAGACAGAAACAAAAGTGATGGGAAATGACCTGGGATTCACACAGCAGGGCC  
 AAATCAGCCTTTCTCGGGGAAACAGACTTAAAGCTTTTGAAGAAAGCATTGCAAACCTCAATAGGTC  
 GACCAGTGTTCAGAGAACCCCAAGAGTTCAGCATCCACTGCTGTGTCTGCTGCCCCACAGAGAAGGAG  
 TTTCAAAAACACTCACTCTGATGTATCTTCAGAACAGCAACATTTGAAGGGCCAGACTGGCACCAACGGTG  
 GCAATGTGAAATTGTATACCACAGACCAAAAGCACCTTTGACATTTTGCAGGATTTGGAGTTTTCTCTGG  
 GTCCCCAGGTAAGAGACGAATGAGAGTCCTTGGAGATCAGACCTGTTGATAGATGAAAACCTGTTTGCTT  
 TCTCTCTGGCGGAGAAGACGATTTCCTTTTGAAGGAACTCGAATGAGGACTGCAAGCCTCTCA  
 TTTTACCGGACTAAACCCAAAATTAAGGATAATGGAGATCTGGTTTTGTCAAGCCCAGTAATGTAAC  
 ACTGCCCAAGTAAAACAGAAAAGAAGATTTTCATCGAACTCTGCACCCCTGGGTAATTAAGCAAGAG  
 AAATGGGCACAGTTTACTGTGTCAGGCAAGCTTTCTGGAGCAAATAAATGGTAATAAAATGTCTGCCA  
 TTTCTGTTTCATGGTGTGAGTACCTCTGGAGGACAGATGTACCACTATGACATGAATACAGCATCCCTTTC  
 TCAACAGCAGGATCAGAAGCCTATTTTTAATGTCATTCCACCAATTCCTGTTGGTTCCGAAAATGGAAAT  
 AGGTGCCAAGGATCTGGAGATGACAACCTTGACTTCTCTGGGGACTCTGAACCTCCCTGGTTCGAACAGTTT  
 TTTCTAATGGCTATTCAGCCCCAGCATGAGACCAGATGTAAGCTCTCCTCCATCCAGCTCCTCAACAGC  
 AACAACAGGACCCTCCCAAACCTGCCTGGTGTGCTCTGATGAAGCTTCAGGATGTCATTATGGAGTC  
 TTAACCTGTGGAAGCTGTAAGTTTTCTTCAAAAGAGCAGTGAAGGACAGCACAATTACCTATGTGCTG  
 GAAGGAATGATTGCATCATCGATAAAATTCGAAGAAAAAACTGCCAGCATGCCGCTATCGAAAATGTCT  
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 GGAGTCTCACAAGAAACCTCTGAAAATCCTGGTAACAAAAACAATAGTTCCTGCAACGTTACCACAACCTCA  
 CCCCTACCCTGGTGTCACTGTTGGAGGTTATTGAACCTGAAGTGTATATGCAGGATATGATAGCTCTGT  
 TCCAGACTCAACTTGGAGGATCATGACTACGCTCAACATGTTAGGAGGGCGGCAAGTATTGCAGCAGTG  
 AAATGGGCAAAGGCAATACCAGGTTTCAGGAACCTTACACCTGGATGACCAAATGACCCTACTGCAGTACT  
 CCTGGATGTTTCTTATGGCATTGCTCTGGGTGGAGATCATATAGACAATCAAGTGCAAACCTGCTGTG  
 TTTTGCTCCTGATCTGATTATTAATGAGCAGAGAATGACTCTACCCTGCATGTACGACCAATGTAACAC  
 ATGCTGTATGTTTCTCTGAGTTACACAGGCTTCAGGTATCTTATGAAGAGTATCTCTGTATGAAAACCT  
 TACTGCTTCTCTTTCAGTTCTAAGGACGGTCTGAAGAGCCAAGAGCTATTTGATGAAATTAGAATGAC  
 CTACATCAAAGAGCTAGGAAAAGCCATTGTCAAGAGGGAAGGAACTCCAGCCAGAATGGCAGCGGTTT  
 TATCAACTGACAAAACCTTTGGATTCTATGCATGAAGTGGTTGAAAATCTCCTTAACTATTGCTTCCAAA  
 CATTTTTGGATAAGACCATGAGTATTGAATCCCCGAGATGTTAGCTGAAATCATACCAATCAGATACC  
 AAAATATTCAAATGAAAATATCAAAAACCTTCTGTTTCATCAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234726 representing NM\_001204259  
Red=Cloning site Green=Tags(s)

MGLYMGETETKVMGNDLGFPPQQQISLSSGETDLKLEESIANLNRSTVSPENPKSSASTAVSAAPTKEK  
 FPKTHSDVSSEQHLKGQGTGTNGGNVLYTTDQSTFDILQDLEFSSGSPGKETNESPWRSDLLIDENCLL  
 SPLAGEDDSFLLLEGNSNEDCKPLILPDTKPKIKDNGDLVLSPPSNVTLPQVKTEKEDFIELCTPGVIKQE  
 KLGTVYQCASFPGANIIGNKMSAIVHGVSTSGGQMYHYDMNTASLSQQQDQKPIFNVIPPVGSSENWN  
 RCQGSDDNLTSLGTLNFPGRVTFVSNYSSPSMRPDVSSPSSSTATTGPPPKLCLVCSDEASGCHYGV  
 LTCGSKVFFKRAVEGQHNYLCAGRNDCLIDKIRRNKNCACRYRKLQAGMNLEARKTKKKIKGIQQATT  
 GVSQETSENPGNKTIVPATLPQLTPTLVSLLEIEPEVLVYAGYDSSVPDSTWRIMTTLNMLGGRQVIAAV  
 KWAKAIPGFRNLHLDDQMTLLQYSWMFLMAFALGWRYSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKH  
 MLYVSELHRLQVSYEEYLCKMTLLLLSSVPKDKLSQELFDEIRMTYIKELGKAIKREGNSSQNWRQRF  
 YQLTKLLDSMHEVVENLLNYCFQTFLDKMTSIEFPEMLAEIITNQIPKYSNGNIKKLLFHQK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001204259

**ORF Size:** 2076 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\\_001204259.2](#)

**RefSeq Size:** 6801 bp

**RefSeq ORF:** 2079 bp

**Locus ID:** 2908

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

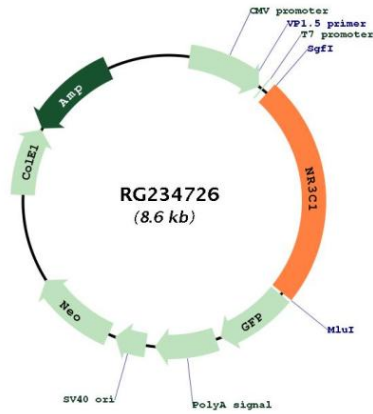
**Cytogenetics:** 5q31.3

**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 RG234726