

Product datasheet for **RG234719**

Glucocorticoid Receptor (NR3C1) (NM_001204260) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_001204260) 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:

>RG234719 representing NM_001204260
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGAGACAGAAACAAAAGTATGGGAAATGACCTGGGATCCACAGCAGGGCCAAATCAGCCTTT
 CCTCGGGGAAACAGACTTAAAGCTTTTGAAGAAAGCATTGCAAACCTCAATAGGTCGACCAGTGTTC
 AGAGAACCCCAAGAGTTCAGCATCCACTGCTGTGTCTGCTGCCCCACAGAGAAGGAGTTTCCAAAACT
 CACTCTGATGTATCTTCAGAACAGCAACATTTGAAGGGCCAGACTGGCACCAACGGTGGCAATGTAAAT
 TGTATACCACAGACCAAAGCACCTTTGACATTTTGCAGGATTTGGAGTTTTCTTCTGGGTCCCAGGTAA
 AGAGACGAATGAGAGTCTTGGAGATCAGACCTGTTGATAGATGAAAACCTGTTTGTCTTCTCTCTGGCG
 GGAGAAGACGATTATTCTTTTGAAGGAAACTCGAATGAGGACTGCAAGCCTCTATTTTACCGGACA
 CTAACCCCAAAATTAAGGATAATGGAGATCTGGTTTTGTCAAGCCCCAGTAATGTAACACTGCCCAAGT
 GAAAACAGAAAAAGAAGATTTTCATCGAACTCTGCACCCCTGGGGTAATTAAGCAAGAAAACTGGGCACA
 GTTACTGTCTCAGGCAAGCTTTCCTGGAGCAAATAAATTGGTAATAAAATGTCTGCCATTTCTGTTCATG
 GTGTGAGTACCTCTGGAGGACAGATGTACCACTATGACATGAATACAGCATCCCTTTCTCAACAGCAGGA
 TCAGAAGCCTATTTTTAATGTCATTCCACCAATCCCCTGGTTCGAAAATTGGAATAGGTGCCAAGGA
 TCTGGAGATGACAACCTGACTTCTCTGGGGACTCTGAACCTCCCTGGTTCGAACAGTTTTTTCTAATGGCT
 ATTCAGCCCCAGCATGAGACCAGATGTAAGCTCTCCTCCATCCAGCTCCTCAACAGCAACAACAGGACC
 ACCTCCAAACTCTGCCTGGTGTGCTCTGATGAAGCTTCAGGATGTCATTATGGAGTCTTAACTTGTGGA
 AGCTGTAAGTTTTCTTCAAAGAGCAGTGAAGGACAGCACAATTACCTATGTGCTGGAAGGAATGATT
 GCATCATCGATAAAATTCGAAGAAAAAACTGCCCAGCATGCCGCTATCGAAAATGTCTTTCAGGCTGGAAT
 GAACCTGGAAGCTCGAAAAACAAAGAAAAAAATAAAAGGAATTCAGCAGGCCACTACAGGAGTCTCACAA
 GAAACCTCTGAAAATCCTGGTAACAAAACAATAGTTTCTGCAACGTTACCACAACCTACCCCTACCTGG
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 GCAATACCAGGTTTCAGGAACTTACACCTGGATGACCAAATGACCCTACTGCAGTACTCCTGGATGTTTC
 TTATGGCATTGCTCTGGGGTGGAGATCATATAGACAATCAAGTGCAAACCTGCTGTGTTTTGCTCCTGA
 TCTGATTATTAATGAGCAGAGAATGACTCTACCCTGCATGTACGACCAATGTAACACATGCTGTATGTT
 TCCTCTGAGTTACACAGGCTTCAGGTATCTTATGAAGAGTATCTCTGTATGAAAACCTTACTGCTTCTCT
 CTTCAAGTTCTAAGGACGGTCTGAAGAGCCAAGAGCTATTTGATGAAATTAGAATGACCTACATCAAAGA
 GCTAGGAAAAGCCATTGTCAAGAGGGAAGGAAACTCCAGCCAGAACTGGCAGCGTTTTTATCAACTGACA
 AAACCTCTGGATTCTATGCATGAAGTGGTTGAAAATCTCCTTAACTATTGCTTCCAAACATTTTTGGATA
 AGACCATGAGTATTGAATCCCCGAGATGTTAGCTGAAATCATCACCATCAGATACCAAAATATTCAAA
 TGGAAATATCAAAAACCTTCTGTTTCATCAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234719 representing NM_001204260
 Red=Cloning site Green=Tags(s)

MGETETKVMGNDLGFPQQGQISLSSGETDLKLLLEESIANLNRSTSVPENPKSSASTAVSAAPEKEFPKT
 HSDVSSEQQHLKGQTGTNGGNVLYTTDQSTFDILQDLEFSSGSPGKETNESPWSDLLIDENCLLSPLA
 GEDDSFLLLEGNSNEDCKPLILPDTKPKIKDNGDLVLSPPSNVTLQVKTEKEDFIELCTPGVIKQEKLG
 VYCQASFPGANIIGNKMSAIVHGVSTSGGQMYHYDMNTASLSQQQDQKPIFNVIPPIPVGSENWNRCQG
 SGDDNLTSLGTLNFPGRTVFSGYSSPSMRPDVSSPPSSSTATTGPPPKLCLVCSDEASGCHYGLVTCG
 SCKVFFKRAVEGQHNYLCAGRNDICIIDKIRRNKCPACRYRKCLQAGMNLEARKTKKKIKGIQQATTGVSQ
 ETSENPGNKTIVPATLPQLTPTLVSLLEVIEPEVLYAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAK
 AIPGFRNLHLDDQMTLLQYSWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYV
 SSELHRLQVSYEEYLCKMTLLLLSSVPKDKLSQELFDEIRMTYIKELGKAIKREGNSSQNWRFYQLT
 KLLDSMHEVVENLLNYCFQTFLDKTMSEIPEPLAEIITNQIPKYSNGNIKLLFHQK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204260

ORF Size: 2064 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_001204260.2](#)

RefSeq Size: 6801 bp

RefSeq ORF: 2067 bp

Locus ID: 2908

UniProt ID: [P04150](#)

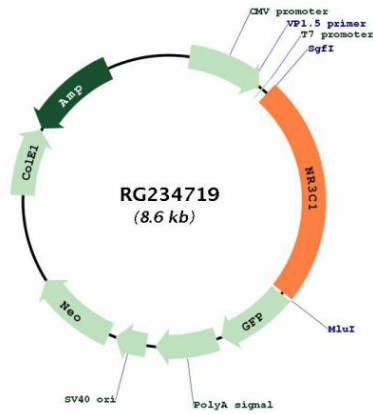
Cytogenetics: 5q31.3

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 RG234719