

## Product datasheet for **RC220189**

### Glucocorticoid Receptor (NR3C1) (NM\_000176) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_000176) 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:**

>RC220189 representing NM\_000176  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTCCAAGAATCATTAACTCCTGGTAGAGAAGAAAACCCAGCAGTGTGCTTGCTCAGGAGAGGG  
 GAGATGTGATGGACTTCTATAAAACCCCTAAGAGGAGGAGCTACTGTGAAGTTTTCTGCGTCTTACCCTC  
 ACTGGCTGTCGCTTCTCAATCAGACTCCAAGCAGCGAAGACTTTTGGTTGATTTTCCAAAAGGCTCAGTA  
 AGCAATGCGCAGCAGCCAGATCTGTCCAAGCAGTTTCACTCTCAATGGGACTGTATATGGGAGAGACAG  
 AAACAAAAGTGATGGAAATGACCTGGGATTCCCACAGCAGGGCCAAATCAGCCTTCTCGGGGAAAC  
 AGACTTAAAGCTTTTGAAGAAAGCATTGCAAACCTCAATAGGTCGACCAGTGTCCAGAGAACCCCAAG  
 AGTTCAGCATCCACTGCTGTGTCTGCTGCCCCACAGAGAAGGAGTTTCCAAAACCTCACTCTGATGAT  
 CTTCAGAACAGCAACATTTGAAGGGCCAGACTGGCACCAACGGTGGCAATGTGAAATTGTATACCACAGA  
 CCAAAGCACCTTTGACATTTTGCAGGATTTGGAGTTTTCTTCTGGGTCCCAGGTAAAGAGACGAATGAG  
 AGTCTTTGGAGATCAGACCTGTTGATAGATGAAAACCTGTTTGCTTCTCCTCTGGCGGGAGAAGACGATT  
 CATTCTTTTGAAGGAACTCGAATGAGGACTGCAAGCCTCTCATTACCAGGACTAAACCCAAAAT  
 TAAGGATAATGGAGATCTGGTTTTGTCAAGCCCAGTAATGTAACACTGCCCAAGTGAACACAGAAAA  
 GAAGATTTTCATCGAATCTGCACCCCTGGGGTAATTAAGCAAGAGAAAAGTGGGCACAGTTTACTGTCAGG  
 CAAGCTTCTCGGAGCAAATAAATGGTAATAAAATGTCTGCCATTTCTGTTTATGGTGTGAGTACCTC  
 TGGAGGACAGATGTACCACTATGACATGAATACAGCATCCCTTCTCAACAGCAGGATCAGAAGCCTATT  
 CTTAATGTCATTCCACCAATCCCGTTGGTCCGAAAATGGAATAGGTGCCAAGGATCTGGAGATGACA  
 ACTTGACTTCTCTGGGGACTCTGAATCCCTGGTCCGAAACAGTTTTTTCTAATGGCTATTCAAGCCCCAG  
 CATGAGACCAGATGTAAGCTCTCCTCCATCCAGCTCCTCAACAGCAACAACAGGACCACCTCCCAAACCTC  
 TGCTGGTGTGCTCTGATGAAGCTTCAAGGATGTCATTATGGAGTCTTAACTTGTGGAAGCTGTAAGTTT  
 TCTTCAAAGAGCAGTGGAAAGGACAGCACAATTACCTATGTGCTGGAAGGAATGATTGCATCATCGATAA  
 AATTCGAAGAAAAAACTGCCAGCATGCCGCTATCGAAAATGTCTTCAAGGCTGGAATGAACCTGGAAGCT  
 CGAAAAACAAAGAAAAAAATAAAAGGAATTCAGCAGGCCACTACAGGAGTCTCACAAGAAACCTCTGAAA  
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 TCAGGAACTTACACCTGGATGACCAATGACCCTACTGCAGTACTCCTGGATGTTTCTTATGGCATTTC  
 TCTGGGTGGAGATCATATAGACAATCAAGTGAAACCTGCTGTGTTTTGCTCCTGATCTGATTATTAAT  
 GAGCAGAGAATGACTCTACCCTGCATGTACGACCAATGTAACACATGCTGTATGTTTCTCTGAGTTAC  
 ACAGGCTTCAAGTATCTTATGAAGAGTATCTCTGTATGAAAACCTTACTGCTTCTCTTTCAGTTCTTAA  
 GGACGGTCTGAAGAGCCAAGAGCTATTTGATGAAATTAGAATGACCTACATCAAAGAGCTAGGAAAAAGCC  
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 CTATGCATGAAGTGGTTGAAAATCTCCTTAACTATTGCTTCCAAACATTTTGGATAAGACCATGAGTAT  
 TGAATTCCTCCGAGATGTTAGCTGAAATCATCACCATCAGATACCAAAATATTCAAACGGAAATATCAA  
 AAACCTTCTGTTTCATCAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220189 representing NM\_000176  
Red=Cloning site Green=Tags(s)

MDSKESLTPGREENPSSVLAQERGDVMDFYKTLRGGATVKVSASSPSLAVASQSDSKQRRLLVDFPKGSV  
SNAQQPDL SKAVSL SMGLYMGETETKVMGNDLGFPOQQQISLSSGETDLKLL EESIANLNRSTVSPENPK  
SSASTAVSAAPTEKEFPKTHSDVSSEQQHLKGQTGTNGGNV KLYTTDQSTFDILQDLEFSSGSPGKETNE  
SPWRSDLLIDENCLL SPLAGEDDSFLL EGNSEDCKPLILPDTKPKIKDNGDLV LSSPSNVTL PQVKTEK  
EDFIELCTPGVIKQEKLGTVYQCASFPGANIIGNKMSAISVHGVSTSGGQMYHYDMNTASLSQQQDQKPI  
LNVIPP IPVGSENWNR CQGSDDNLTSLGTLNFPGR TVFSNGYSSPSMRPDVSSPSSSSTATTGPPP K L  
CLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRND CIIDKIRRKNCPACRYRKCLQAGMNLEA  
RKTKKKIKGIQQATTGVSQETSENP GNKTIVPATLPQLTPTLVSLLEVIEPEVLYAGYDSSVPDSTWRIM  
TTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSWMFLMAFALGWRSYRQSSANLLCFAPDLIIN  
EQRM T L P C M Y D Q C K H M L Y V S S E L H R L Q V S Y E E Y L C M K T L L L L S S V P K D G L K S Q E L F D E I R M T Y I K E L G K A  
I V K R E G N S S Q N W Q R F Y Q L T K L L D S M H E V V E N L L N Y C F Q T F L D K T M S I E F P E M L A E I I T N Q I P K Y S N G N I K  
K L L F H Q K

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mg3318\\_c09.zip](https://cdn.origene.com/chromatograms/mg3318_c09.zip)

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_000176

ORF Size: 2331 bp

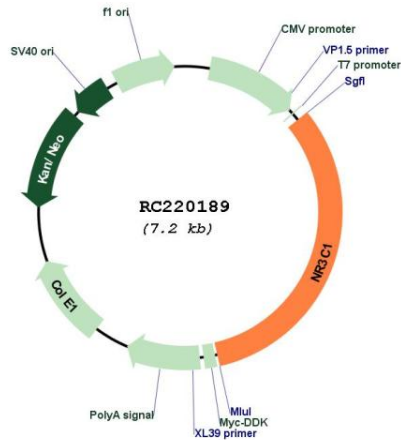
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

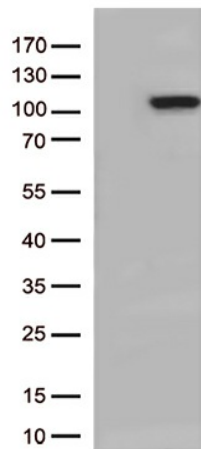
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_000176.3</a>
<b>RefSeq Size:</b>	6784 bp
<b>RefSeq ORF:</b>	2334 bp
<b>Locus ID:</b>	2908
<b>UniProt ID:</b>	<a href="#">P04150</a>
<b>Cytogenetics:</b>	5q31.3
<b>Domains:</b>	HOLI, GCR, zf-C4
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	85.5 kDa
<b>Gene Summary:</b>	<p>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]</p>

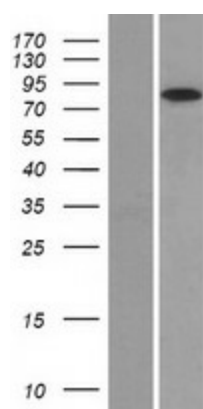
Product images:



Circular map for RC220189



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NR3C1 (Cat# RC220189, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NR3C1 (Cat# [TA806197])(1:500).



Western blot validation of overexpression lysate (Cat# [LY424874]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220189 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).