

## Product datasheet for **SC302230**

### Glucocorticoid Receptor (NR3C1) (NM\_001024094) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_001024094) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glucocorticoid Receptor
Synonyms:	GCCR; GCR; GCRST; GR; GRL
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001024094, the custom clone sequence may differ by one or more nucleotides

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ATGGACTCCAAAGAATCATTAACCTCCTGGTAGAGAAGAAAACCCAGCAGTGTGCTTGCT
CAGGAGAGGGGAGATGTGATGGACTTCTATAAAACCCTAAGAGGAGGAGCTACTGTGAAG
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GCAGTTTCACTCTCAATGGGACTGTATATGGGAGAGACAGAAACAAAAGTGTGGGAAAT
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TACGACCAATGTAACACATGCTGTATGTTTTCTCTGAGTTACACAGGCTTCAGGTATCT
TATGAAGAGTATCTGTATGAAAACCTTACTGCTTCTCTTTCAGTTCCCTAAGGACGGT
CTGAAGAGCCAAGAGCTATTTGATGAAATTAGAATGACCTACATCAAAGAGCTAGGAAAA
GCCATTGTCAAGAGGGAAGGAAACTCCAGCCAGAACTGGCAGCGGTTTTATCAACTGACA
AAACTCTTGATTCTATGCATGAAGTGGTTGAAAATCTCCTTAACTATTGCTTCCAAACA
TTTTTGGATAAAGACCATGAGTATTGAATCCCCGAGATGTTAGCTGAAATCATACCAAT
CAGATACCAAATATTCAAATGGAAATATCAAAAACCTTCTGTTTCATCAAAAGTGA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_001024094

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_001024094.1</a> , <a href="#">NP_001019265.1</a>
<b>RefSeq Size:</b>	6787 bp
<b>RefSeq ORF:</b>	2337 bp
<b>Locus ID:</b>	2908
<b>UniProt ID:</b>	<a href="#">P04150</a>
<b>Cytogenetics:</b>	5q31.3
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<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> <p>Transcript Variant: This variant (7) uses an alternate in-frame donor splice site at one of the coding exons compared to variant 1. This results in an isoform (gamma) that is 1 aa longer than isoform alpha. The insertion of an additional amino acid (arginine) in the DNA binding domain has been reported to decrease transcriptional activation by the glucocorticoid receptor (PMID:10566686). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>