

Product datasheet for **SC302161**

Glucocorticoid Receptor (NR3C1) (NM_001018074) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_001018074) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glucocorticoid Receptor
Synonyms:	GCCR; GCR; GCRST; GR; GRL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001018074 edited
 GAAGACCCGGCCGCCAGATGATGCGGTGGTGGGGACCTGCCGACCGCGACTCCCCC
 GGGCCCAATTGATATTCAGTACTGATGGACTCCAAAGAATCATTAACTCCTGGTAGAGAAGA
 AAACCCAGCAGTGTGCTTGCTCAGGAGAGGGGAGATGTGATGGACTTCTATAAAACCTT
 AAGAGGAGGAGCTACTGTGAAGTTTCTGCGTCTTACCCTCACTGGCTGTGCTTCTCA
 ATCAGACTCCAAGCAGCGAAGACTTTTGGTTGATTTTCCAAAAGGCTCAGTAAGCAATGC
 GCAGCAGCCAGATCTGTCCAAAGCAGTTTCACTCTCAATGGGACTGTATATGGGAGAGAC
 AGAAACAAAAGTATGGGAAATGACCTGGGATCCACAGCAGGGCCAAATCAGCCTTTC
 CTCGGGGAAACAGACTTAAAGCTTTTGAAGAAAGCATTGCAAACCTCAATAGGTCGAC
 CAGTGTCCAGAGAACCCCAAGAGTTCAGCATCCACTGCTGTGTCTGCTGCCCCACAGA
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 CAACTTGACTTCTCTGGGACTCTGAACTTCCCTGGTTCGAACAGTTTTTTCTAATGGCTA
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 AACAGGACCACCTCCAAACTCTGCCTGGTGTGCTCTGATGAAGCTTCAGGATGTCATTA
 TGGAGTCTTAACTTGTGGAAGCTGTAAGTTTTCTTCAAAGAGCAGTGGAAAGGACAGCA
 CAATTACCTATGTCTGGAAGGAATGATTGCATCATCGATAAAATTCGAAGAAAAAACTG
 CCCAGCATGCCGCTATCGAAAATGTCTCAGGCTGGAATGAACCTGGAAGCTCGAAAAAC



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CAAGTTATTGTACAGCTGTTTAAAGATGGGCAGCTAGTTCGTAGCTTCCCAAATAAACTC
TAAACATTAATCAATCATCTGTGTGAAAATGGGTTGGTGTCTAACCTGATGGCACTTA
GCTATCAGAAGACCACAAAAATTGACTCAAATCTCCAGTATTCTGTCAAAAAAAAAAAAA
AAAAAA

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Restriction Sites:

Please inquire

ACCN:

NM_001018074

Insert Size:

3300 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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.

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:	<ol style="list-style-type: none">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:	<u>NM_001018074.1, NP_001018084.1</u>
RefSeq Size:	6614 bp
RefSeq ORF:	2334 bp
Locus ID:	2908
UniProt ID:	<u>P04150</u>
Cytogenetics:	5q31.3
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<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 (2) contains an alternative 5' terminal non-coding exon, thus has a different 5' UTR compared to variant 1. Variants 1-5 encode the same isoform (alpha).</p> <p>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>