

Product datasheet for **SC120032**

Glucocorticoid Receptor (NR3C1) (NM_000176) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF:

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>OriGene sequence for NM_000176 edited
TCACTATAGGGCGGCCGGAATTCGGCACGAGGAGATGATGCGGTGGTGGGGGACCTGCC
GGCACGCGACTCCCCCGGGCCAAATTGATATTCAGTATGACTCCAAAGAATCATT
ACTCCTGGTAGAGAAGAAAACCCAGCAGTGTGCTTGCTCAGGAGAGGGGAGATGTGATG
GACTTCTATAAAACCCTAAGAGGAGGAGCTACTGTGAAGTTTCTGCGTCTTACCCTCA
GGCTCAGTAAGCAATGCGCAGCAGCCAGATCTGTCCAAAGCAGTTTCACTCTCAATGGGA
CTGTATATGGGAGAGACAGAAACAAAAGTATGGGAAATGACCTGGGATCCACAGCAG
GGCCAAATCAGCCTTTCTCGGGGAAACAGACTTAAAGCTTTTGGAAAGAAAGCATTGCA
AACCTCAATAGGTCGACCAGTGTTCAGAGAACCCTAAGAGTTCAGCATCCACTGCTGTG
TCTGCTGCCCCACAGAGAAGGAGTTTCCAAAACTCACTCTGATGTATCTTCAGAACAG
CAACATTTGAAGGGCCAGACTGGCACCAACGGTGGCAATGTGAAATTTGATACCACAGAC
CAAAGCACCTTTGACATTTGCAGGATTTGGAGTTTCTTCTGGGTCCCAGGTAAGAG
ACGAATGAGAGTCTTGGAGATCAGACCTGTTGATAGATGAAAAGTGTGCTTTCTCCT
CTGGCGGGAAGACGATTTCATTCCTTTTGAAGGAACTCGAATGAGGACTGCAAGCCT
CTCATTTTACCGACACTAAACCCTAAATTAAGGATAATGGAGATCTGGTTTTGCAAGC
CCCAGTAATGTAACACTGCCCAAGTGAACAGAAAAAGAAAGATTTTCATCGAAGTCTGC
ACCCCTGGGGTAATTAAGCAAGAGAAACTGGGCACAGTTTACTGTGAGGCAAGCTTTCT
GGAGCAATATAATTGGTAATAAAATGTCTGCCATTTCTGTTTATGGTGTGAGTACCTCT
GGAGGACAGATGTACCACTATGACATGAATACAGCATCCCTTTCTCAACAGCAGGATCAG
AAGCCTATTCTTAATGTCATTCCACCAATTCCTGTTGGTCCGAAAATTTGGAATAGGTGC
CAAGGACTGGAGATGACAACCTGACTTCTCTGGGACTCTGAACTTCCCTGGTGAACA
GTTTTTTCTAATGGCTATTCAAGCCCCAGCATGAGACCAGATGTAAGCTCTCCTCCATCC
AGCTCCTCAACAGCAACAACAGGACCACCTCCAAACTCTGCCTGGTGTGCTCTGATGAA
GCTTCAGGATGTCATTATGGAGTCTTAACTTGTGGAAGCTGTAAGTTTTCTTCAAAGA
GCAGTGAAGGACAGCACAATTACCTATGTGCTGGAAGGAATGATTGCATCATCGATAAA
ATTGAAAGAAAAACTGCCAGCATGCCGCTATCGAAAATGTCTTCAGGCTGGAATGAAC
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TCACAAGAAACCTCTGAAAATCCTGGTAACAAAACAATAGTTCTGCAACGTTACCACAA
CTCACCCCTACCCTGGTGTCACTGTTGGAGTTATTGAACCTGAAGTGTATATGCAGGA
TATGATAGCTCTGTTCCAGACTCAACTGGAGGATCATGACTACGCTCAACATGTTAGGA
GGGCGGCAAGTATTGCAGCAGTGAATGGGCAAGGCAATACCAGGTTTCAGGAACTTA
CACCTGGATGACCAATGACCCTACTGCAGTACTCCTGGATGTTTCTTATGGCATTGCT
CTGGGGTGGAGATCATATAGACAATCAAGTGAACCTGCTGTGTTTTGCTCCTGATCTG
ATTATTAATGAGCAGAGAATGACTCTACCCTGCATGTACGACCAATGTAACACATGCTG
TATGTTTCTCTGAGTTACACAGGCTTCAGGTATCTTATGAAGAGTATCTCTGTATGAAA
ACCTTACTGCTTCTCTTCAAGTTCCTAAGGACGGTCTGAAGAGCCAAGAGCTATTTGAT
GAAATTAAGAAATGACCTACATCAAAGAGCTAGGAAAAGCCATTGTCAAGAGGGAAGGAAAC
TCCAGCCAGAACTGGCAGCGGTTTTATCAACTGACAAAACCTCTTGATTCTATGCATGAA
GTGGTTGAAAATCTCCTTAACTATTGCTTCCAAACATTTTTGGATAAGACCATGAGTATT
GAATTCCTCGAGATGTTAGCTGAAATCATCACCATCAGATACCAAAATATTCAAACGGA
AATATCAAAAACCTTCTGTTTCAAAAAGTACTGCCTTAATAAGAATGGTTGCCTTAA
AGAAAGTCGAATTAATAGCTTTTATTGTATAAACTATCAGTTTGTCTGTAGAGTTTTG
TTGTTTTATTTTT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000176 unedited
 TTTTNNGTGTCAGATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGAGA
 TGATGCGGTGGTGGGGGACCTGCCGGCACGCGACTCCCCCGGGCCAAATTGATATTCA
 CTGATGGACTCCAAGAATCATTAACTCCTGGTAGAGAAGAAAACCCAGCAGTGTGCTT
 GCTCAGGAGAGGGGAGATGTGATGGACTTCTATAAAACCTAAGAGGAGGAGCTACTGTG
 AAGTTTTCTGCGTCTTCACCCCTCACTGGCTGTCGCTTCTCAATCAGACTCCAAGCAGCGA
 AGACTTTTGGTTGATTTTCCAAAAGGCTCAGTAAGCAATGCGCAGCAGCCAGATCTGTCC
 AAAGCAGTTTCACTCTCAATGGGACTGTATATGGGAGAGACAGAAACAAAAGTGATGGGA
 AATGACCTGGGATTCCCACAGCAGGGCCAAATCAGCCTTTCCTCGGGGAAACAGACTTA
 AAGCTTTTGAAGAAAGCATTGCAAACCTCAATAGGTCGACCAGTGTCCAGAGAACCC
 AAGAGTTCAGCATCCACTGCTGTGTCTGCTGCCCCACAGAGAAGGAGTTTCCAAAACT
 CACTCTGATGTATCTTCAGAACAGCAACATTTGAAGGGCCAGACTGGCACCAACGGTGGC
 AATGTGAAATTGTATACCACAGACCAAAGCACCTTTGACATTNTGCAGGATTTGGAGTTT
 TCTTCTGGGTCCCAGNTAAAGAGACGAATGAGAGTNCCTGGAGATCAGACCTGTTGATA
 GATGAAAAGTNTTGCTTCTCCTCTGGCGGNAGAAGACGATTTCCTTTNTGNNANG
 AANNCTCGATGAGACCTGCAGCCTCTCATTTTTACCGGACACTAACCCAAATTTAGGAT
 AATGGAGATCTGGNTTGTAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000176 unedited
 CCGCATAGATCGAGTTTTTTTTTTTTTTTTTTTCGACAAGATACTGGAGATTTGAGTCA
 ATTTTTGTGGTCTTCTGATAGCTAAGTGCCATCAGGTTAAAAGCACCAACCCATTTTCC
 ACAGATGATTGATTAATGTTTAGAGTTTATTTGGGAAAGCTACGAACTAGCTGCCATCT
 TAAACAGCTGTACAATAACTTGAATAAAAAAATTGTAAGAAAAAATGAGCAAGCGTAGT
 TCACTAAATATAAAGGAAATTGTTAAAACCAGACAGTAATAGCTATAAAAGGCACAACTT
 CCCTTTTCTGATATACACTTGTAAACTTTTTTTCAGGTTTCCATGCATAAATCAAAAAATG
 CTATCCTAACTATACAGGGGGGGATACACCAACAGAAAGTCTAGAAAATTTTCATCCAGC
 CAACTGTGAAAAAAGTATGAAGAGAAAGTTCATCACACAGACTTTGGGCACTGGTGGTT
 TAGGTGCCATCCTTCTTTGACTGTGGAGATTACGTCCACATATTAAGGTTTCTAATTTCT
 GGGATATATTAATAATAAATTTACCATCTACTCTCCCATTCAGTAAAAGTATGATGACG
 ACTCAACTGCTTCTGTTGCCAAGTCTTGGCCCTCTATAAACACATGTAGTGCATTTTT
 AAAACAAACACCAGATGATAACAATTAATAAATATACCACAATACCTCTACAGCACAACT
 GATAGTTTATAACAATAAAGCTATTAATTCGACTTTTCTTTAGGGCACCCATTCTTATTA
 TGGCAGTCACCTTTTGTGAAACAGAAAGTTTTTGTATTTTCCGGTTGATATTTGGTTC
 TGATCGAGGATGATTCAACAACATCTCGGGAATTAATACTCATGTCTTTCCAAATAGTTG
 GAAGCATATTAAGGAAATTTCAACCCCTCATGCTAAAACAAAAATTTGCCAGTGATAACC
 CCTGCACCTCTGGCGAGTTCCTCCCTTTGAATGGCTTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_000176

Insert Size:

3700 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](#)

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_000176.2](#), [NP_000167.1](#)

RefSeq Size: 6784 bp

RefSeq ORF: 2334 bp

Locus ID: 2908

UniProt ID: [P04150](#)

Cytogenetics: 5q31.3

Domains: HOLI, GCR, zf-C4

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]

Transcript Variant: This variant (1) represents the predominant transcript, and encodes the predominant physiological isoform (alpha, also known as GRalpha or GR-A). Variants 1-5 encode the same isoform. Sequence Note: This RefSeq containing multiple in-frame translation initiation codons, is annotated with a CDS starting from the upstream start codon (at nt 493-495). Additional isoforms (alpha-B, C1, C2, C3, D1, D2 and D3) result from the use of downstream translation initiation codons. These isoforms are functional, and display diverse cytoplasm-to-nucleus trafficking patterns and distinct transcriptional activities (PMID:15866175). 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.