

## Product datasheet for **SC331532**

### Glucocorticoid Receptor (NR3C1) (NM\_001204260) Human Untagged Clone

#### Product data:

|               |   |
|---------------|---|
| Product Type: | Expression Plasmids   |
| Product Name: | Glucocorticoid Receptor (NR3C1) (NM_001204260) Human Untagged Clone |
| Tag:          | Tag Free  |
| Symbol:       | Glucocorticoid Receptor   |
| Synonyms:     | GCCR; GCR; GCRST; GR; GRL   |
| Vector:       | pCMV6-Entry (PS100001)  |



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**Fully Sequenced ORF:** >SC331532 representing NM\_001204260.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGGGAGAGACAGAAACAAAAGTGATGGGAAATGACCTGGGATCCCACAGCAGGGCCAAATCAGCCTT
TCCTCGGGGAAACAGACTTAAAGCTTTTGAAGAAAGCATTGCAAACCTCAATAGTCGACCAGTGTT
CCAGAAACCCCAAGAGTTCAGCATCCACTGCTGTGCTGCTGCCCCACAGAGAAGGAGTTTCAAAA
ACTCAGCTGATGTATCTTCAGAACAGCAACATTTGAAGGGCCAGACTGGCACCAACGGTGGCAATGTG
AAATTGTATACCACAGACCAAGCACCTTTGACATTTTGACAGGATTTGGAGTTTTCTTCTGGGTCCCA
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CTGGGCACAGTTTACTGTCAGGCAAGCTTCTGGAGCAAATAAATGGTAATAAAATGTCTGCCATT
TCTGTTTATGGTGTGAGTACCTCTGGAGACAGATGTACCACTATGACATGAATACAGCATCCCTTTCT
CAACAGCAGGATCAGAAGCCTATTTTTAATGTCATTCCACCAATCCCGTTGGTCCGAAAATTGGAAT
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TTTTCTAATGGCTATTCAAGCCCAGCATGAGACCAGATGAAGCTCTCCTCCATCCAGCTCCTCAACA
GCAACAACAGGACCACCTCCCAAACCTCTGCCTGGTGTGCTCTGATGAAGCTTCAGGATGTCATTATGGA
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CAACTCACCCCTACCCTGGTGTCACTGTTGGAGTTATTGAACCTGAAGTGTATATGCAGGATATGAT
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GCAGCAGTGAAATGGGCAAAGGCAATACCAGTTTCAGGAACTTACACCTGGATGACCAATGACCCTA
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CAATGTAAACACATGCTGTATGTTTCTCTGAGTTACACAGGCTTCAGGTATCTTATGAAGAGTATCTC
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AACTATTGCTTCCAAACATTTTTGGATAAGACCATGAGTATTGAATCCCGGAGATGTTAGCTGAAATC
ATCACCAATCAGATACAAAATATTCAAATGGAATATCAAAAACCTTCTGTTTCATCAAAAGTGA
  
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001204260

**Insert Size:** 2067 bp

**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).

**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\\_001204260.1](#)

**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

**MW:** 76.2 kDa

**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) encodes multiple functional isoforms resulting from the use of alternate in-frame, translation initiation codons (PMID:15866175). This RefSeq represents a shorter isoform (alpha-C2, also known as GR-C2) compared to isoform alpha, and is derived from the use of a downstream AUG (at nt 760-762). **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.