

Product datasheet for **RC222342**

Glucocorticoid Receptor (NR3C1) (NM_001018077) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_001018077) 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:**

>RC222342 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

RCATGGACTCCAAGAATCATTAACTCCTGGTAGAGAAGAAAACCCAGCAGTGTGCTTGCTCAGGAGAG
 GGGAGATGTGATGGACTTCTATAAAACCCTAAGAGGAGGAGCTACTGTGAAGTTTCTGCGTCTTACCC
 TCACTGGCTGTCGCTTCTCAATCAGACTCCAAGCAGCAAGACTTTTGGTTGATTTTCCAAAAGGCTCAG
 TAAGCAATGCGCAGCAGCCAGATCTGTCCAAGCAGTTTCACTCTCAATGGGACTGTATATGGGAGAGAC
 AGAAACAAAAGTATGGGAAATGACCTGGGATTCCACAGCAGGGCCAAATCAGCCTTCTCGGGGAA
 ACAGACTTAAAGCTTTTGAAGAAAGCATTGCAAACCTCAATAGGTCGACCAGTGTCCAGAGAACCCCA
 AGAGTTCAGCATCCACTGCTGTCTGTGCTGCCCCACAGAGAAGGAGTTTCCAAAACCTCACTCTGATGT
 ATCTTCAGAACAGCAACATTTGAAGGGCCAGACTGGCACCAACGGTGGCAATGTGAAATTGTATACCACA
 GACCAAAGCACCTTTGACATTTTGCAGGATTTGGAGTTTCTTCTGGGTCCCAGGTAAAGAGACGAATG
 AGAGTCTTGGAGATCAGACCTGTTGATAGATGAAAACCTTTGCTTTCTCTCTGGCGGAGAAGACGA
 TTCATTCCTTTTGAAGGAAACTCGAATGAGGACTGCAAGCCTCTCATTTTACCGGACACTAAACCCAAA
 ATTAAGGATAATGGAGATCTGGTTTTGTCAAGCCCAAGTAAATGTAACACTGCCCAAGTGAAGACAGAAA
 AAGAAGATTTTCATCGAAGCTGACCCCTGGGGTAATTAAGCAAGAGAAAAGTGGGCACAGTTTACTGTCA
 GGCAAGCTTCTCGGAGCAAATAAATTTGGTAATAAATGTCTGCCATTTCTGTTTCAATGGTGTGAGTACC
 TCTGGAGGACAGATGTACCACTATGACATGAATACAGCATCCCTTCTCAACAGCAGGATCAGAAGCCTA
 TTCTTAATGTCAATCCACCAATCCCGTTGGTCCGAAAATTGGAATAGGTGCCAAGGATCTGGAGATGA
 CAACTTGACTTCTGGGACTCTGAACCTCCCTGGTCCGAAACAGTTTTTCTAATGGCTATTCAAGCCCC
 AGCATGAGACCAGATGTAAGCTCTCCTCCATCCAGCTCCTCAACAGCAACAACAGGACCACCTCCCAAAC
 TCTGCCTGGTGTCTCTGATGAAGCTTCAAGATGTCATTATGGAGTCTTAACTTGTGGAAGCTGTAAGT
 TTTCTTCAAAGAGCAGTGAAGGACAGCACAATTACCTATGTGCTGGAAGGAATGATTGCATCATCGAT
 AAAATTCGAAGAAAAAACTGCCAGCATGCCGCTATCGAAAATGTCTCAGGCTGGAATGAACCTGGAAG
 CTCGAAAAACAAAGAAAAAATAAAAGGAATTCAGCAGGCCACTACAGGAGTCTCACAAGAAACCTCTGA
 AAATCCTGGTAACAAAACAATAGTTCTGCAACGTTACCACAACCTACCCCTACCCTGGTGTCACTGTTG
 GAGGTTATTGAACCTGAAGTGTATATGCAGGATATGATAGCTCTGTTCCAGACTCAACTGGAGGATCA
 TGACTACGCTCAACATGTTAGGAGGGCGCAAGTATTGCAGCAGTGAATGGGCAAAGGCAATACCAGG
 TTTCAAGAACTTACACCTGGATGACCAAATGACCTACTGCAGTACTCCTGGATGTTTCTTATGGCATT
 GCTCTGGGGTGGAGATCATATAGACAATCAAGTCAAACCTGCTGTGTTTTGCTCCTGATCTGATTATTA
 ATGAGCAGAGAATGACTCTACCCTGCATGTACGACCAATGTAACACATGCTGTATGTTTCTCTGAGTT
 ACACAGGCTTCAGGTATCTTATGAAGAGTATCTCTGTATGAAAACCTTACTGCTTCTCTTCAAGTTCT
 AAGGACGGTCTGAAGAGCCAAGAGCTATTTGATGAAATAGAATGACCTACATCAAAGAGCTAGGAAAAAG
 CCATTGTCAAGAGGGAAGGAAACTCCAGCCAGAAGTGGCAGCGGTTTTATCAACTGACAAAACCTTGGGA
 TTCTATGCATGAAGTGGTTGAAAATCTCCTTAACTATTGCTTCCAACATTTTGGATAAGACCATGAGT
 ATTGAATTCCTCCGAGATGTTAGCTGAAAATCATCCAATCAGATACCAAAATATTCAAACGGAAAATCA
 AAAAATCTCTGTTTCATCAAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222342 protein sequence
Red=Cloning site Green=Tags(s)

XWTPKNH*LLVEKKTPAVCLLRGEM*WTSIKP*EEELL*RFLRLHPHWLSLLNQTPSSEDFWLIFQKAQ
*AMRSSQICPKQFHSQWDCIWERQKQK*WEMTWDSHSRAKSAFPRGKT*SFWKALQTSIGRPVFQRT
RVQHPLLCLLPPQRRSFQKLTLMYLQNSNI*RARLAPTAM*NCIPQTKAPLTFCRIWSFLLGPQVKRRM
RVLGDQTC**MKTVCFLWREKTIHSFWKETRMRTASLSFYRTLNPCLRIMEIWFQAPVM*HCPK*KQK
KKISSNSAPLG*LSKRNWAQFTVRQAFLEQI*LVIKCLPFLFMV*VPLEDRCTTMT*IQHPFLNSRIRSL
FLMSFHQFPLVPKIGIGAKDLEMTT*LLWGL*TSLVEQFFLMAIQAPA*DOM*ALLHPAPQQQQDHLPN
SAWCALMKLQDVIMES*LVEAVKFSSKEQWKDSTITYVLEGMIASSIKFEEKTAQHAAIENVFRLE*TWK
LEKQRKK*KEFSRPLQESHKPLKILVTKQ*FLQRYHNSPLPWCHCWRLNLKCYMQDMIALFQTQLGGS
*LRSTC*EGGK*LQQ*NGQRQYQVSGTYTWMTK*PYCSTPGCFLWLLWGGDHIDNQVQTCVLLLI*LL
MSRE*LYPACTTNVNTCCMFPLSYTGFYLMKISV*KPYCFLQFLRTV*RAKSYLMKLE*PTSKS*EK
PLSRGKETPARTGSGFIN*QNSWILCMKWLKISLTIASKHFWIRP*VLNSPRC*LKSSPIRYQNIQTTEIS
KNFCFIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3318_c09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001018077

ORF Size: 2331 bp

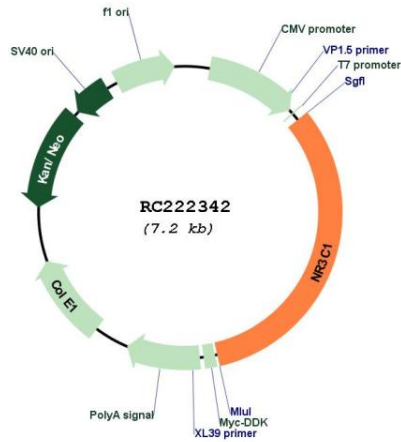
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

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_001018077.1</u> , <u>NP_001018087.1</u>
RefSeq Size:	7286 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
MW:	85.6 kDa
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>

Product images:



Circular map for RC222342