

Product datasheet for **RC234827**

Glucocorticoid Receptor (NR3C1) (NM_001204258) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucocorticoid Receptor (NR3C1) (NM_001204258) 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:

>RC234827 representing NM_001204258
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTTCTATAAAACCCTAAGAGGAGGAGCTACTGTGAAGTTTCTGCGTCTTACCCTCACTGGCTG
 TCGCTTCTCAATCAGACTCCAAGCAGCGAAGACTTTTGGTTGATTTCCAAAAGGCTCAGTAAGCAATGC
 GCAGCAGCCAGATCTGTCCAAAGCAGTTTCACTCTCAATGGGACTGTATATGGGAGAGACAGAAACAAA
 GTGATGGGAAATGACCTGGGATCCACAGCAGGGCCAAATCAGCCTTCTCGGGGAAACAGACTTAA
 AGCTTTTGAAGAAAGCATTGCAAACCTCAATAGGTGACAGTGTCCAGAGAACCCCAAGAGTTCAGC
 ATCCACTGCTGTCTGCTGCCCCACAGAGAAGGAGTTTCAAAAACCTCACTCTGATGTATCTTCAGAA
 CAGCAACATTTGAAGGGCCAGACTGGCACCAACGGTGGCAATGTGAAATTGTATACCACAGACCAAAGCA
 CCTTTGACATTTGCAGGATTTGGAGTTTCTTCTGGGTCGCCAGGTAAGAGACGAATGAGAGTCTTG
 GAGATCAGACCTGTTGATAGATGAAAACGTTTGTCTTCTCCTCTGGCGGAGAAGACGATTTCATTCCTT
 TTGGAAGGAAACTCGAATGAGGACTGCAAGCCTCTCATTTCACCGACACTAAACCCAAAATTAAGGATA
 ATGGAGATCTGGTTTTGTCAAGCCCAGTAATGTAACACTGCCCAAGTAAAACAGAAAAGAAGATT
 CATCGAATCTGCACCCCTGGGTAATTAAGCAAGAGAACTGGGCACAGTTTACTGTGACGGCAAGCTTT
 CCTGGAGCAAATATAATTGGTAATAAAATGTCTGCCATTTCTGTTTCATGGTGTGAGTACCTCTGGAGGAC
 AGATGTACCCTATGACATGAATACAGCATCCCTTCTCAACAGCAGGATCAGAAGCCTATTTTTAATGT
 CATTCCACCAATCCCGTTGGTCCGAAAATTGGAATAGGTGCCAAGGATCTGGAGATGACAACCTTGACT
 TCTCTGGGACTCTGAACCTCCCTGGTCAACAGTTTTTTCTAATGGCTATTCAAGCCCCAGCATGAGAC
 CAGATGTAAGCTCTCCTCCATCCAGCTCCTCAACAGCAACAACAGGACCACCTCCCAAACCTGCCTGGT
 GTGCTCTGATGAAGCTTCAGGATGTCATTATGGAGTCTTAACCTGTGGAAGCTGTAAAGTTTTCTCAAA
 AGAGCAGTGGAAGGACAGCACAATTACCTATGTGCTGGAAGGAATGATTGCATCATCGATAAAATTCGAA
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 AACAAAACAATAGTTCTGCAACGTTACCACAACCTACCCCTACCCTGGTGTCACTGTTGGAGGTTATTG
 AACCTGAAGTGTATATGCAGGATATGATAGCTCTGTTCCAGACTCAACTGGAGGATCATGACTACGCT
 CAACATGTTAGGAGGGCGCAAGTGATTGCAGCAGTGAATGGGCAAAGGCAATACCAGTTTCAGGAAC
 TTACACCTGGATGACCAATGACCTACTGCAGTACTCCTGGATGTTTCTTATGGCATTGCTCTGGGGT
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 AATGACTCTACCCTGCATGTACGACCAATGTAACACATGCTGTATGTTTCTCTGAGTTACACAGGCTT
 CAGGTATCTTATGAAGAGTATCTCTGTATGAAAACCTTACTGCTTCTCTTTCAGTTCTTAAAGCAGGTC
 TGAAGAGCCAAGAGCTATTTGATGAAATTAAGATGACCTACATCAAAGAGCTAGGAAAAGCCATTGTCAA
 GAGGGAAGGAAACTCCAGCCAGAAGTGGCAGCGGTTTTATCAACTGACAAAACCTTTGGATTCTATGCAT
 GAAGTGGTTGAAAATCTCCTTAACCTATTGCTTCCAAACATTTTTGGATAAGACCATGAGTATTGAATTCC
 CCGAGATGTTAGCTGAAATCATACCAATCAGATACCAAAATATTCAAATGGAAATATCAAAAACCTTCT
 GTTTCATCAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234827 representing NM_001204258
 Red=Cloning site Green=Tags(s)

MDFYKTLRGGATVKVSASSPSLAVASQSDSKQRRLLVDFPKGSVSNAQQPDL SKAVSL SMGLYMGETETK
 VMGNDLGFPPQQQIISLSSGETDLKLEESIANLNRSTVSPENPKSSASTAVSAAPTEKEFPKTHSDVSSE
 QQHLKGQTGTNGGNVCLYTTDQSTFDILQDLEFSSGSPGKETNESPWRSDLLIDENCLL SPLAGEDDSFL
 LEGNSNEDCKPLILPDTKPKIKDNGDLVSSPSNVTL P QVKTEKEDFIELCTPGVIKQEKLGTVYCQASF
 PGANIIGNKMSAISVHGVSTSGGQMYHYDMNTASLSQQDQKPIFNVIPPIPVGSENNRCQSGDDNLT
 SLGTLNFPGRTVFSNGYSSPSMRPDVSSPPSSSTATTGPPPKLCLVCSDEASGCHYGVLTCGSCKVFFK
 RAVEGQHNYLCAGRNDICIIDKIRRNKCPACRYRKCLQAGMNL EARKTKKIKGIQATTGVSQETSENPG
 NKTIVPATLPQLTPTLVSLLEVIEPEVL YAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVK WAKAIPGFRN
 LHLDDQMTLLQYSWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSSSELHRL
 QVSYEEYL CMKTL LLLSSVPKDKLSQELFDEIRMTYIKELGKAI VKREGNSSQNWRFYQLTKLLDSMH
 EVVENLLNYCFQTF LDKTMSIEFPEMLAEIITNQIPKYSNGNIKKLLFHQK

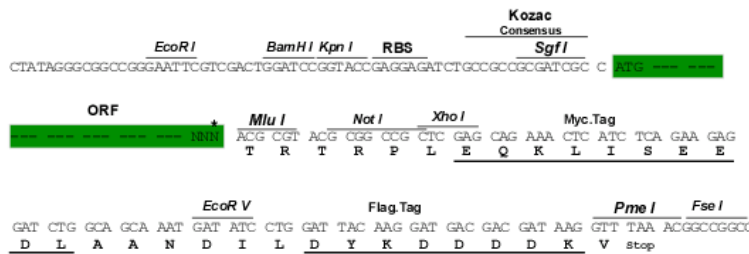
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001204258

ORF Size: 2253 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:

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_001204258.2](#)

RefSeq Size: 6801 bp

RefSeq ORF: 2256 bp

Locus ID: 2908

UniProt ID: [P04150](#)

Cytogenetics: 5q31.3

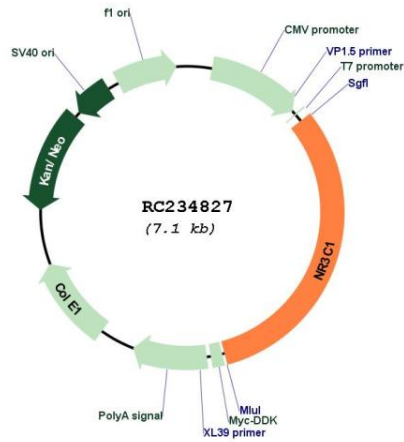
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 83.3 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]

Product images:



Circular map for RC234827