

Product datasheet for **RG210815**

Retinoic Acid Receptor gamma (RARG) (NM_000966) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor gamma (RARG) (NM_000966) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Retinoic Acid Receptor gamma
Synonyms:	NR1B3; RARC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG210815 representing NM_000966
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCAATAAGGAGCGACTCTTTGCGGCTGGTGCCTGGGGCTGGATCTGGCTACCCAGGGGCAG
 GTTCCCTTCGCTTCCAGGGGCACTCAGGGGTCTCCGCCTTCGAGATGCTGAGCCCTAGCTTCCG
 GGGCTGGGCCAGCTGACCTCCCAAGGAGATGGCTCTCTGTGCGTGGAGACACAGACCAGCTCA
 GAGGAGATGGTGCCAGCTCGCCCTCGCCCCCTCCGCCTCTCGGGTCTACAAGCCATGCTTCGTGTGCA
 ATGACAAGTCTCTGGCTACCACTATGGGGTCACTCTTGTGAAGGTGCAAGGGCTTTTCGCCGAAG
 CATCCAGAAGAACATGGTGTACACGTGTACCCGACAAAACTGTATCATCAACAAGGTGACCAGGAAT
 CGTGCCAGTACTGCCGGTACAGAAGTCTCGAAGTGGGCATGTCCAAGGAAGCTGTGCGAAATGACC
 GGAACAAGAAGAAGAGGTGAAGGAAGAAGGGTCACTGACAGCTATGAGCTGAGCCCTCAGTTAGA
 AGAGCTCATACCAAGGTGAGCAAGCCATCAGGAGACTTTCCCTCGCTCTGCCAGCTGGGCAAGTAT
 ACCACGAACTCCAGTGCAGACCACCGCTGCAGCTGGATCTGGGGCTGTGGGACAAGTTCAGTGAGCTGG
 CTACCAAGTGCATCATCAAGATCGTGGAGTTTGCCAAGCGGTTGCCTGGCTTTACAGGGCTCAGATTGC
 TGACCAGTCACTCTGCTCAAAGCTGCCTGCCTAGATATCCTGATGCTGCGTATCTGCACAAGGTACACC
 CCAGAGCAGGACACCATGACCTTCTCCGACGGGCTGACCTGAACCGGACCCAGATGCACAATGCCGGCT
 TCGGGCCCTCACAGACCTTGTCTTTGCCTTGTGGGCAGCTCCTGCCCTGGAGATGGATGACACCGA
 GACAGGGCTGCTCAGGCCATCTGCCTCATCTGCGGAGACCGCATGGACCTGGAGGAGCCCGAAAAAGT
 GACAAGTGCAGGAGCCACTGCTGGAAGCCCTGAGGCTGTACGCCGGCGCCGGCGCCAGCCAGCCCT
 ACATGTTCCCAAGGATGCTAATGAAAATCACCGACCTCCGGGCATCAGCACTAAGGGAGCTGAAAGGGC
 CATTACTCTGAAGATGGAGATCCAGGCCGATGCCTCCCTTAATCCGAGAGATGCTGGAGAACCCTGAA
 ATGTTTGAGGATGACTCCTCGCAGCCTGGTCCCCACCCCAATGCCTCTAGCGAGGATGAGGTTCTGGG
 GCCAGGGCAAAGGGGCTGAAGTCCCCAGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210815 representing NM_000966
 Red=Cloning site Green=Tags(s)

MATNKERLFAAGALGPGSGYPGAGFPFAFPGALRGSPPEMLSPSFRGLGQPDLPKEMASLSVETQSTSS
 EEMVPPSPPPPPRVYKPCFVCNDKSSGYHYGVSSCEGCKGFFRRSIQKNMVYTCRDKNCIINKVTRN
 RCQYCRQLQKCFEYVMSKEAVRNRNKKKKEVKEEGSPDSYELSPQLEELITKVSKAHQETFPQLCQLGKY
 TTNSSADHRVQLDLGLWDFSELATKCIKIVFAKRLPGFTGLSIADQITLLKAACLDILMLRICTRYT
 PEQDTMTFSDGLTLNRTQMHNAGFGPLTDLVFAFAGQLLPLEMDDTETGLLSAICLICGDRMDLEEPEKV
 DKLQEPLLEALRLYARRRRPSQPYMFPRMLMKITDLRGIKGAERAITLMEIPGMPPLIREMLENPE
 MFEDDSSQPGPHPNASSEDEVGGQKGLKSPA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_000966

ORF Size: 1362 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 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_000966.6](#)

RefSeq Size: 2900 bp

RefSeq ORF: 1365 bp

Locus ID: 5916

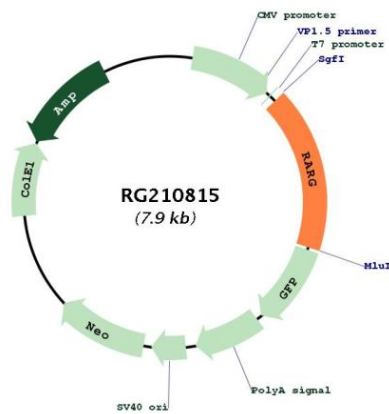
UniProt ID: [P13631](#)

Cytogenetics: 12q13.13

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

Gene Summary: This gene encodes a retinoic acid receptor that belongs to the nuclear hormone receptor family. Retinoic acid receptors (RARs) act as ligand-dependent transcriptional regulators. When bound to ligands, RARs activate transcription by binding as heterodimers to the retinoic acid response elements (RARE) found in the promoter regions of the target genes. In their unbound form, RARs repress transcription of their target genes. RARs are involved in various biological processes, including limb bud development, skeletal growth, and matrix homeostasis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG210815