

## Product datasheet for RC233932

### Retinoic Acid Receptor gamma (RARG) (NM\_001243730) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor gamma (RARG) (NM_001243730) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Retinoic Acid Receptor gamma
Synonyms:	NR1B3; RARC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233932 representing NM_001243730 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCCAGCTCGCCCTCGCCCCCTCCGCTCCTCGGGTCTACAAGCCATGCTTCGTGTGCAATGACA  
AGTCTCTGGCTACCACTATGGGGTCACTCTTGTGAAGGCTGCAAGGGCTTCTTTCGCCGAAGCATCCA  
GAAGAACATGGTGTACACGTGTACCCGACAAAACTGTATCATCAACAAGGTGACCAGGAATCGCTGC  
CAGTACTGCCGGCTACAGAAGTCTTGAAGTGGGCATGTCCAAGGAAGCTGTGCGAAATGACCGGAACA  
AGAAGAAGAAAGAGGTGAAGGAAGAAGGTCACCTGACAGCTATGAGCTGAGCCCTCAGTTAGAAGAGCT  
CATCACCAAGGTGAGCAAGCCATCAGGAGACTTCCCCTCGCTCTGCCAGCTGGGCAAGTATACCAGG  
AACTCCAGTGCAGACCACCGCTGCAGCTGGATCTGGGGCTGTGGGACAAGTTCACTGAGCTGGCTACCA  
AGTGCATCATCAAGATCGTGGAGTTTGCCAAGCGGTTGCCTGGCTTTACAGGGCTCAGCATTGCTGACCA  
GATCACTCTGCTCAAAGCTGCCTGCCTAGATATCCTGATGCTGCGTATCTGCACAAGGTACACCCAGAG  
CAGGACACCATGACCTTCTCCGACGGGCTGACCCTGAACCGGACCCAGATGCACAATGCCGGCTTCGGGC  
CCCTCACAGACCTTGCTTTGCCTTTGCTGGGCAGCTCCTGCCCTGGAGATGGATGACACCGAGACAGG  
GCTGCTCAGCGCCATCTGCCTCATCTGCGGAGACCGCATGGACCTGGAGGAGCCCGAAAAAGTGGACAAG  
CTGCAGGAGCCACTGCTGGAAGCCCTGAGGCTGTACGCCCGCGCGGCCAGCCAGCCCTACATGT  
TCCCAAGGATGCTAATGAAAATCACCGACCTCCGGGGCATCAGCACTAAGGGAGCTGAAAGGGCCATTAC  
TCTGAAGATGGAGATTCCAGGCCGATGCCTCCCTTAATCCGAGAGATGTGGAGAACCCTGAAATGTTT  
GAGGATGACTCCTCGCAGCCTGGTCCCCACCCAAATGCCTCTAGCGAGGATGAGGTTCTGGGGCCAGG  
GCAAAGGGGGCCTGAAGTCCCCAGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233932 representing NM\_001243730  
 Red=Cloning site Green=Tags(s)

MVPSSPSPPPPPRVYKPCFVCNDKSSGYHYGVSSCEGCKGFFRRSIQKNMYYTCHRDKNCIINKVTRNRC  
 QYCRLQKCFEVMGSKAVRNRNDRNKKKKEVKEEGSPDSYELSPQLEELITKVSKAHQETFPSLCQLGKYTT  
 NSSADHRVQLDLGLWDFSELATKCIKIVEFAKRLPGFTGLSIADQITLLKAACLDILMLRICTRYTPE  
 QDTMTFSDGLTLNRTQMHNAGFGPLTDLVFAFAGQLLPLEMDDTETGLLSAICLICGDRMDLEEPEKVDK  
 LQEPLLEALRLYARRRRPSQPYMFPRMLMKITDLRGISTKGAERAITLKMEIPGMPPLIREMLENPEMF  
 EDDSSQGPHPNASSEDEVPGGQKGGGLKSPA

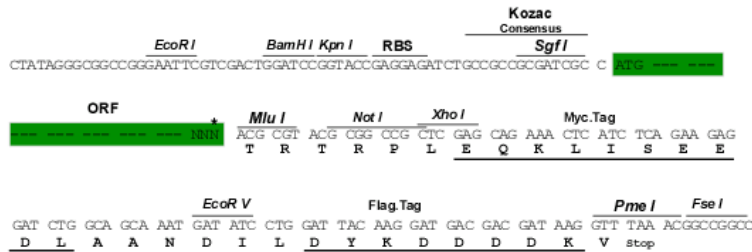
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001243730

**ORF Size:** 1146 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\\_001243730.1](#), [NP\\_001230659.1](#)

**RefSeq Size:** 2666 bp

**RefSeq ORF:** 1149 bp

**Locus ID:** 5916

**UniProt ID:** [P13631](#)

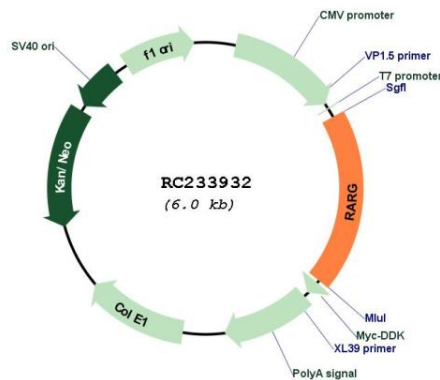
**Cytogenetics:** 12q13.13

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

**MW:** 43.4 kDa

**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 RC233932