

Product datasheet for **RG234082**

Retinoic Acid Receptor gamma (RARG) (NM_001243732) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor gamma (RARG) (NM_001243732) 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)
ORF Nucleotide Sequence:	>RG234082 representing NM_001243732 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTAGCCCTCCCCCTCCCCCTGCTGGAGCGGGCGCCGCCGGGGAGGAGGGGAATCGGCTGCGG
GTCCTTGGTGTTCAGCACCCAGTTCCCTTCAAGCCGGTTCGCGATGTACGACTGTATGGAAACGTTT
GCCCGGGTCCGCGACGGCTGTACGGGGCGCCGGGCCCGGGCCGGCTTGTGCGCAGAGCCACCGGCC
GCTCCTGTTTCGCCGACTTGAATCTTTGCTGCGCCGAACCCGCCAGCCTGCAATGGCTTCTTTCGCC
GAAGCATCCAGAAGAACATGGTGTACACGTGTACCGCGACAAAACTGTATCATCAACAAGGTGACCAG
GAATCGCTGCCAGTACTGCCGGCTACAGAAGTGCCTTCAAGTGGGCATGTCCAAGGAAGCTGGCGAAAT
GACCGGAACAAGAAGAAGAAAGAGGTGAAGGAAGAAGGTCACCTGACAGCTATGAGCTGAGCCCTCAGT
TAGAAGAGCTCATCACCAGGTGAGCAAGCCATCAGGAGACTTCCCCCTCGCTCTGCCAGCTGGGCAA
GTATACCACGAACTCCAGTGCAGACCACCGGTGCAGCTGGATCTGGGGCTGTGGGACAAGTTTCAAGT
CTGGCTACCAAGTGCATCATCAAGATCGTGGAGTTTCCCAAGCGGTTGCCTGGCTTTACAGGGCTCAGCA
TTGCTGACCAGATCACTCTGCTCAAAGCTGCCTGCCTAGATATCCTGATGCTGCGTATCTGCACAAGGTA
CACCCAGAGCAGGACACCATGACCTTCTCCGACGGGCTGACCTGAACCGGACCCAGATGCACAATGCC
GGCTTCGGGCCCTCACAGACCTTGTCTTTCCTTTGCTGGCAGCTCCTGCCCTGGAGATGGATGACA
CCGAGACAGGGTGTCTCAGCGCCATCTGCCTCATCTGCGGAGACCGCATGGACCTGGAGGAGCCCGAAAA
AGTGGACAAGCTGCAGGAGCCACTGCTGGAAGCCCTGAGGCTGTACGCCCGCGCCGCGGCCAGCCAG
CCCTACATGTTCCCAAGGATGCTAATGAAAATCACCGACCTCCGGGGCATCAGCACTAAGGGAGCTGAAA
GGGCCATTACTCTGAAGATGGAGATTCAGGCCGATGCCTCCCTTAATCCGAGAGATGCTGGAGAACC
TGAAATGTTTGAGGATGACTCCTCGCAGCCTGGTCCCCACCCCAATGCCTCTAGCGAGGATGAGGTTCT
GGGGCCAGGGCAAAGGGGGCTGAAGTCCCCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234082 representing NM_001243732
Red=Cloning site Green=Tags(s)

MLALPLPPCWGAPPGEEGESAAGPWCFQHPVSLQAGSRCTTVWKRLPRVRDGTGRPGGPACCAEPPA
 APVSPDLNLLPGRNPPACNGFFRRSIQKNMYYTCHRDKNCIINKVTRNRCQYCRLQKCFEVMGMSKEAVRN
 DRNKKKKEVKEEGSPDSYELSPQLEELITKVSKAHQETFPPLCQLGKYTTNSSADHRVQLDLGLWDFSE
 LATKCIKIVEFAKRLPGFTGLSIADQITLLKAACLDILMLRICTRYTPEQDTMTFSDGLTLNRTQMHNA
 FGPLTDLVFAFAGQLLPLEMDDTETGLLSAICLICGDRMDLEPEKVDKLEPILLEALRLYARRRRPSQ
 PYMFRMLMKITDLRGISTKAERAITLMEIPGMPPLIREMLENPEMFEDDSSQPGHPNASEDEV
 GGQKGLKSPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243732

ORF Size: 1296 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_001243732.2](#)

RefSeq Size: 2631 bp

RefSeq ORF: 1299 bp

Locus ID: 5916

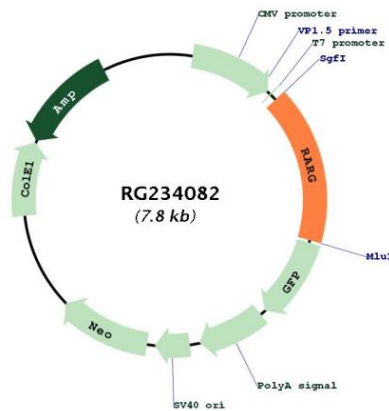
UniProt ID: [P13631](#)

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 RG234082