

Product datasheet for **SC311478**

Retinoic Acid Receptor gamma (RARG) (NM_001042728) Human Untagged Clone

Product data:

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|---------------------------|-------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Retinoic Acid Receptor gamma (RARG) (NM_001042728) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Retinoic Acid Receptor gamma |
| Synonyms: | NR1B3; RARC |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_001042728 edited

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GGGGGAATCGGCTGCGGGTCTTGGTGTTCAGCACCCAGTTTCCCTTCAAGCCGGGT
GCGATGTACGACTGTATGGAAACGTTTGCCCCGGTCCGCGACGGCTGTACGGGGCGGC
GGGCCCCGGGCGGCTTGTGCGCAGAGCCACCGCGGCTCCTGTTTCGCCGACTTGAA
TCTTTTGCCTGGCCGCAACCCGCCAGCTGCAATCGGTGGAGACACAGACCAGCTCA
GAGGAGATGGTGCCAGCTCGCCCTCGCCCCCTCCGCCTCCTCGGGTCTACAAGCCATGC
TTCGTGTGCAATGACAAGTCTCTGGCTACCACTATGGGGTCAGCTCTTGTGAAGCTGC
AAGGGCTTCTTTGCGCGAAGCATCCAGAAGAACATGGTGTACACGTGTACCCGCGACAAA
AACTGTATCATCAACAAGGTGACCAGGAATCGCTGCCAGTACTGCCGGCTACAGAAGTGC
TTCGAAGTGGGCATGTCCAAGGAAGCTGTGCGAAATGACCGGAACAAGAAGAAGAAAGAG
GTGAAGGAAGAAGGGTACCTGACAGCTATGAGCTGAGCCCTCAGTTAGAAGAGCTCATC
ACCAAGGTGAGCAAAAGCCATCAGGAGACTTTCCCTCGCTGCGCAGCTGGGCAAGTAT
ACCACGAACTCCAGTGCAGACCACCGCTGCAGCTGGATCTGGGGCTGTGGGACAAGTTC
AGTGAGCTGGCTACCAAGTGCATCATCAAGATCGTGGAGTTTGCCAAGCGGTTGCCTGGC
TTTACAGGGCTCAGCATTGCTGACCAGTCACTCTGCTCAAAGTGCCTGCCTAGATATC
CTGATGTGCGTATCTGCACAAGGTACACCCAGAGCAGGACACCATGACCTTCTCCGAC
GGGCTGACCCTGAACCGACCCAGATGCACAATGCCGGCTTCCGGCCCCCTCACAGACCTT
GTCTTTGCCTTTGCTGGGCAGCTCCTGCCCTGGAGATGGATGACACCGAGACAGGGCTG
CTCAGCGCCATCTGCCTCATCTGCGGAGACCGCATGGACCTGGAGGAGCCCGAAAAAGTG
GACAAGCTGCAGGAGCCACTGCTGGAAGCCCTGAGGCTGTACGCCCGGCGCCGGCGGCC
AGCCAGCCCTACATGTTCCCAAGGATGCTAATGAAAATCACCGACCTCCGGGGCATCAGC
ACTAAGGGAGCTGAAAGGGCCATTACTCTGAAGATGGAGATTCCAGGCCCGATGCCTCCC
TTAATCCGAGAGATGCTGGAGAACCCTGAAATGTTTGAGGATGACTCCTCGCAGCTGGT
CCCCACCCAATGCCTCTAGCGAGGATGAGGTTCTTGGGGCCAGGGCAAGGGGGCCTG
AAGTCCCCAGCCTGACCAGGGCCCTGACCTCCCCGCTGTGGGGTTGGGGCTTCAGGCA
GCAGACTGACCATCTCCAGACCGCCAGTACTGGGGGAGGACCTGCTCTGCCCTCTCC
CACCCCTTCCAATGAGCTCCTTGTTTTTGCCAAAGTTTCTAGGGGTGCCTCTGTGTTTAT
CCCCTTCTGATCTAACCGGCTCCCTCGCCAGTCCCGGGGCTGCCCTGCTCCCACCAG
GAGAGAGGGCAAAGGGATGAGCCTGGGTTTGGACTCTAAAATCTCAGCACTGCCCATGG
GTCCTAGACTTCCAGGGCAAGAGGAAGACCCTGCCATTCACAGCCCCTTCTCTGCCA
GGTGCTTGGCTCTCTGAGAGCAAACAGGAACACTAGAGACAAAAAGGGGACAAAGGAGA
AGGGCTGAGCCACCTTCTGCTCCTACCCTTGGTGCCTAATGCTGTGTGATGCACCTGC
AGGGTGTGTGCTAGCCTCTGTGCCCGTCTTGTGCCAGGTCAAGGTGGGGGGCAGGCTG
GGCCCTGCATTTCTGGGGCAGGAACAGAGGGTGAAGGGGACAGATAGATGCAGGTCCATT
CTGCACCTCTTGGCTCGGGTGCAGAGTTCACCCTGTGCCCTCCGTTATAAGTCCCTCCCC
CAGCCCTGTATGTGCCTTGGGCTCCTCCTGCCCTCCATCTCAGCCATTGGGGCAGGGAC
CCTCTACACTACAGAGGGGCCAGGGGATCCCTCTCCTCCTAGTGCCTTCCACCCCTTAC
TCCCCAGAGCAGCTTGGCCCAGGGAGGGGGATGCTGCTTAGCTGATCCCGCCCTGACCC
AGAGGAAGCCTCTATTTATTTATTAGCTTTTGTTTACACCGTGAATTGACCCCTCCTC
CAGGGGTCTTGGGTGGGGGAGCCAGGGCCCTGTGACCCTCCTTTCTCCTCCAATCC
CCAGTTTGTATTTAGCTGCCAAATAAGATTCCATTGGCTCCCTGTGTTTTCTTGGGGG
TCAGGGTGTGTCCTCCCTCTGTTTACATCTCCCCTTACCCCGCTGTATCGCATAT
TGCTGAGTTTTCTATTTTGCAAAATAAAGTGATGGAACTCAAAAAAAAAAAAAAAAAA
AAAAAAAAARRRMRMRMTCTAGAGTATCCCTC

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Restriction Sites: Please inquire
ACCN: NM_001042728
Insert Size: 2600 bp

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| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001042728.1. |
| 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_001042728.1, NP_001036193.1</u> |
| RefSeq Size: | 2740 bp |
| RefSeq ORF: | 1332 bp |
| Locus ID: | 5916 |
| UniProt ID: | <u>P13631</u> |
| Cytogenetics: | 12q13.13 |
| Protein Families: | Druggable Genome, Nuclear Hormone Receptor, Transcription Factors |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' terminal exon compared to variant 1. This results in translation initiation from an alternate start codon, and a shorter isoform (2) with a distinct N-terminus compared to isoform 1.</p> |