

Product datasheet for **MC200972**

Rarg (BC013709) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rarg (BC013709) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rarg
Synonyms:	RARD, Nr1b3, RARgamma2, MGC11555, MGC18523
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC013709
 CCACCCCGCCTGCTGCAGAGTCCAAGGGATTCCACGCCGCAGCTACCATGGCCACCAATAAAGAGAGA
 CTCTTTGCGCCCGGTGCCCTGGGGCCTGGATCTGGTTACCCAGGAGCAGGCTTCCCATTCGCTTCCCAG
 GTGCACTCAGAGGGTCCGCCACCATTTGAGATGCTGAGCCCTAGCTTCCGGGGCCTGGGCCAGCCTGACCT
 CCCAAGGAGATGGCTTCTCTCGGTGGAGACACAGAGCACCAGCTCGGAGGAGATGGTACCCAGCTCT
 CCCTACCCCCACCACCTCCTCGGGTCTATAAGCCATGCTTTGTATGCAATGACAAGTCTTCTGGCTACC
 ACTATGGGGTCAGCTCCTGTGAAGGCTGCAAGGGCTTCTCAGACGCAGCATTAGAAAAACATGGTGTA
 TACATGTACCGTGACAAAAATTGTATCATCAACAAGGTACCAGAAATCGATGCCAGTACTGCAGGCTA
 CAAAAGTGTTCGAAGTGGGCATGTCCAAGGAAGCTGTAAAGAACGATCGAAACAAGAAGAAAAAGGAGG
 TAAAAGAGGAGGGCTTGCCCGACAGCTACGAACTGAGTCCACAGTTAGAGGAACTCATCACCAAGGTCAG
 CAAAGCCACCAGGAGACTTTTCCCTCACTCTGCCAGCTGGGCAAGTACACTACGAACTCGAGCGCAGAT
 CACCGGGTGCAGCTGGACCTGGGGCTGTGGACAAGTTCAGCGAGCTGGCCACCAATGCATCATCAAGA
 TTGTGGAGTTTGCGAAGCGGCTGCCTGGTTTTACAGGGCTCAGCATTGCCGACCAGATCACGCTGCTCAA
 GGCTGCTTGCCTGGACATCCTAATGCTGCGGATCTGTACAAGGTATACCCAGAGCAGGACACTATGACA
 TTCTCGGATGGGCTGACCCTGAACCGAACCCAGATGCACAATGCTGGCTTTGGGCCCTTACAGACCTCG
 TCTTTGCCTTTGCCGGGAGCTGCTGCCCTGGAGATGGATGACACCGAGACTGGGCTACTTAGTGCAT
 CTGCCTCATCTGTGGAGACCGAATGGACCTGGAAGAGCCCGAGAAGGTGGACAAGCTGCAGGAGCCCTG
 CTGGAAGCCCTGAGGCTCTATGCCCGGCGACGGAGACCCAGCCAAACCCTACATGTTCCCAAGGATGCTGA
 TGAAAATCACCGACCTCCGGGCATCAGCACTAAGGGAGCAGAAAGGGCTATAACCCTGAAGATGGAGAT
 TCCAGGCCCGATGCCACCCTGATCCGAGAGATGCTGGAGAACCAGGAGATGTTTGGAGCAGACTCCTCG
 AAGCCTGGCCCCACCCAAGGCTTCCAGTGAGGACGAAGCTCCAGGGGGCCAGGGCAAAAGGGGCCAAA
 GTCCCCAACCTGACCAGGGGCCCTGACCTACCCGTTGTGGGGTTGGGCCCCAGGCAGCAGACTGACCAT
 TTCCCAGATACCGCCAGTACTGGGGGAGGACCTGCCCCGCCACTCTCCACCCTTTAATGAGCTCGTT
 ATTTTGCCAAAGTTTCTAGGGGTGCCTGTGTTTCCCTGCTTCTAACTGGCTCCCTCTACAGTCC
 CGAGGGACTGCTGCACACCTACCAGAAGAGCTGGAGAAGGGGCGAGCCTGGGTCTAGACTCTAAAATCTC
 AGCACTGCCTTTTCGATTTCAGGCCACAGGCTCCCCACGCAAGAGGAAGCCCGCCTTCCCATAGCCTTTT
 CCTCTGCCAGGTGCTTGGGCTCTGGGAGCAAACAGGAACACTAGAGACCAAAGGGGGGCCCGAG
 GGAGGGCTGAGCCACCCTTGTGCCACCCTGAGCGCTGACTCTGTGTGATGAATCTGCCGCGCTCAG
 TGCCCCGGTGCCCCATCCTAATCCTCCTGCTGGGGTAGGGGAGGCTGGGGCTGCGTTTCTAGGGT
 GGGCTGAGGGGAAGGAGAATGTGAGCCGCTGTACCTCTGTGAAGTACAGCACTCATCTGGGCC
 CTCATTATATAAGCCTCTCCCTACTTCTGTCTCGTGCCTTGGCCTCCCGCCCTATTTAGCCATCAG
 GCAGGGCCCTCCTACACTACAGAGGGGCCAGGGTCCCTCTCCTAGTGCCTTCTACCCCTGATCCCCCA
 GAGCAGCTTGGCCCCGGGAGGGGAGATGCTGCTTAGCTGATCCCCCTTACCCAGAGGAAGCCTCTAT
 TTATTTATTAGCTTTTGTACACCCTGGAATGACCCCTTCCCTCAGGGGTCTTGGGAGGGGAGCCCA
 GGGCTCTGTGACCCCTTCTTTTCCCAAGCCCCAGTTTATATTTAGCTGCCAAATAAGATTCT
 GCAGGCTCCCCATTTCTCTGGGGGTAGGGTGTGCCCCCTCCCTCTGTTTACATCTCTACCCCGC
 TGTTTCGCATATTGCTGAGTTTTCTATTTTTGCAAAATAAAGTGATGGGACCTCAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** BC013709
- Insert Size:** 1377 bp
- 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).
- 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: [BC013709](#), [AAH13709](#)

RefSeq Size: 2553 bp

RefSeq ORF: 1377 bp

Locus ID: 19411

Cytogenetics: 15 57.4 cM

Gene Summary: Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence of ligand, acts mainly as an activator of gene expression due to weak binding to corepressors (By similarity). Required for limb bud development. In concert with RARA or RARB, required for skeletal growth, matrix homeostasis and growth plate function. [UniProtKB/Swiss-Prot Function]