

## Product datasheet for **MC216285**

### **Rxrg (NM\_009107) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rxrg (NM_009107) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rxrg
Synonyms:	Nr2b3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216285 representing NM\_009107  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTATGAAATTATTCCCACTTCATGAAGTTTCCACC GGCTTTGGTGGCTCCCCTGGTCACACTGGCT  
 CGACGTCCATGAGCCCTTCAGTAGCCTTGCCACGGGGAAGCCAATGGACAGCCACCCAGCTACACAGA  
 CACCCAGTGAGTCCCCCTCGGACGCTGAGTGCTGTGGAAACCCCTCAATGCTCTTGGCTCTCCGAT  
 AGAGTCATCACTTCTGCCATGGGTCCACCCTCAGGAGCACTGGCAGCTCCTCCAGGAATCAACTGGTGG  
 CTCACCCAGCTCCAGCTAAATGTGGTCAACAGTGTCAGCAGCTCTGAGGACATCAAGCCCTTACCAGG  
 TCTGCCTGGGATTGAAATATGAACTACCCATCCACCAGCCCTGGGTCTCTGGTGAACACATCTGTGCC  
 ATCTGTGGGGACAGATCCTCAGGGAAGCACTACGGTGTGTACAGCTGTGAAGTTGCAAAGGCTTCTTCA  
 AAAGGACCATCAGAAAGATCTCATCTACACCTGTCCGGATAACAAAGATTGTCTCATCGACAAGCGCCA  
 GCGCAACCGCTGCCAGTACTGTCTACAGAAAGTGCCTGGTTCATGGGCATGAAGCGGGAAGCTGTGCAA  
 GAAGAAAGGCAGAGGAGCCGAGAGCGAGAGAGTGGAGCAGAATGTGCCAGTAGTAGCCAGAAAGACA  
 TGCCCGTGGAGAGGATTCTAGAAGCCGAACCTGCTGTGGAACCAAGACAGAATCCTACGGTGACATGAA  
 CGTGGAGAACTCAACAAATGACCCTGTTACCAACATATGCCATGCTGCAGATAAGCAACTTTTACCCTC  
 GTTGTAGTGGGCCAAACGCATCCCCACTTCTCAGATCTCACCTTGGAGGACCAGGTCATTCTACTCCGGG  
 CAGGGTGGAAATGAACTGCTCATTGCCTCCTTCTCCACCCTCGGTTTCCGTCCAGGATGGCATCCTGCT  
 GGCCACGGGCTCCACGTGCACAGGAGCAGCGCTCACAGCGGGAGTCCGCTCCATCTTCGACAGAGTC  
 CTTACAGAGTTGGTGTCCAAGATGAAAGACATGCAGATGGATAAGTCAGAGCTGGGGTGCCTACGGGCA  
 TCGTGCTGTTTAAACCCAGATGCCAAGGTTTATCCAACCCTCTGAGGTGGAGACTCTTCGAGAGAAGGT  
 TTATGCCACCCTGGAGGCTATACCAAGCAGAAGTATCCGGAACAGCCAGGAGGTTTGCCAAGCTTCTG  
 CTGCGTCTCCCTGCTCTGCGCTCCATCGCTTGAATGCCTGGAACACCTCTTCTTCTTCAAGCTCATTG  
 GAGACTCCCATCGACAGCTTCTCATGGAGATGTTGGAGACCCCACTGCAGATCACCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_009107

**Insert Size:** 1392 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](mailto: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](#)

**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\\_009107.3](#), [NP\\_033133.1](#)

**RefSeq Size:** 2151 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 20183

**UniProt ID:** [P28705](#)

**Cytogenetics:** 1 74.99 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. The high affinity ligand for RXRs is 9-cis retinoic acid (By similarity).  
[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).