

## Product datasheet for **RC204093**

### Retinoid X Receptor gamma (RXRG) (NM\_006917) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor gamma (RXRG) (NM_006917) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Retinoid X Receptor gamma
Synonyms:	NR2B3; RXRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC204093 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTATGGAAATTATTCTCACTTCATGAAGTTTCCCGCAGGCTATGGAGGCTCCCCTGGCCACACTGGCT  
 CTACATCCATGAGCCCATCAGCAGCCTTGTCCACAGGGAAGCCAATGGACAGCCACCCAGCTACACAGA  
 TACCCAGTGAGTGCCCCACGGACTCTGAGTGCAGTGGGACCCCTCAATGCCCTGGGCTCTCCATAT  
 CGAGTCATCACCTCTGCCATGGGCCACCCCTCAGGAGCACTTGCAGCGCCTCCAGGAATCAACTGGTTG  
 CCCCACCCAGCTCTCAGCTAAATGTGGTCAACAGTGTGAGCAGTTGAGGACATCAAGCCCTTACCAGG  
 GCTTCCCGGATTGAAACATGAACTACCCATCCACCAGCCCGGATCTCTGGTTAAACACATCTGTGCC  
 ATCTGTGGAGACAGATCCTCAGGAAAGCACTACGGGTATACAGTTGTGAAGGCTGCAAAGGTTCTTCA  
 AGAGGACGATAAGGAAGGACCTCATCTACAGTGTGGGATAATAAGACTGCCTCATTGACAAGCGTCA  
 GCGCAACCGCTGCCAGTACTGTGCTATCAGAAGTGCCTTGTGATGGGCATGAAGAGGGAAGCTGTCAA  
 GAAGAAAGACAGAGGAGCCGAGAGCGAGCTGAGAGTGAGGACAGAAATGTGCTACCAGTGGTATGAAGACA  
 TGCTGTGGAGAGGATTCTAGAAGCTGAACTTGCTGTTGAACCAAGACAGAATCCTATGGTGACATGAA  
 TATGGAGAACTCGACAAATGACCCTGTTACCAACATATGTGATGCTGCTGACAAGCAGCTTTTACCCTC  
 GTTGAATGGGCCAAGCGTATCCCACTTCTCTGACCTCACCTTGGAGGACCAGGTCATTTTGCTTCGGG  
 CAGGGTGGAAATGAATTGCTGATTGCCTCTTCTCCACCAGCTCAGTTCCGTGCAGGATGGCATCCTTCT  
 GGCCACGGGTTTACATGTCCACCGGAGCAGTGGCCACAGTGTGGGGTTCGGCTCCATCTTTGACAGATC  
 CTAAGTACTGGTTTCCAAAATGAAAGACATGCAGATGGACAAGTCGGAAGTGGGATGCCTGCGAGGCCA  
 TTGTACTCTTTAACCCAGATGCCAAGGGCCTGTCCAACCCCTGAGGTGGAGACTCTGCGAGAGAAGGT  
 TTATGCCACCCTTGAGGCTACACCAAGCAGAAGTATCCGGAACAGCCAGGACAGTTTGCCAAGCTGCTG  
 CTGCGCCTCCAGCTCTGCGTTCATTGCTTGAATGCCTGGAGCACCTTCTTCTTCAAGCTCATCG  
 GGGACACCCCATGACACCTTCTCATGGAGATGTTGGAGACCCCGCTGCAGATCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC204093 protein sequence  
 Red=Cloning site Green=Tags(s)

MYGNYSHFMKFPAGYGGSPGHTGSTSMSPSAALSTGKPMDSHPSTYDTPVSAPRTLSAVGTPLNALGSPY  
 RVITSAMGPPSGALAAPPINLVAPPSSQLNVVNSVSSSEDIKPLPGLPGIGNMNPSTSPGSLVKHICA  
 ICGDRSSGKHYGVYSCEGCKGFFKRTIRKDLIYTCRDNKDCLIDKRQRNRCQYCRYQKCLVMGMKREAVQ  
 EERQSRERAESAECATSGHEDMPVERILEAELAVEPKTESYGDMMENSTNDPVTNICHAAADKQLFTL  
 VEWAKRIPHFDLTLQVILLRAGWNELLIASFHRVSVQDGILLATGLHVHRSASHSAGVGSIFDRV  
 LTELVSMMKDMQMDKSELGLRAIVLFNPDAKGLSNPSEVETLREKVYATLEAYTKQKYPEQGRFAKLL  
 LRLPALRSIGLKCLEHLFFFLIGDTPIDTFLMEMLETPLQIT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6059\\_g05.zip](https://cdn.origene.com/chromatograms/mk6059_g05.zip)

**Restriction Sites:**

Sgfl-Mlul

## Cloning Scheme:



ACCN: NM\_006917

ORF Size: 1389 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_006917.5](#)

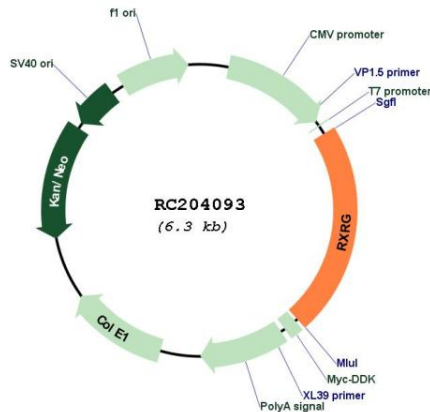
RefSeq Size: 2205 bp

RefSeq ORF: 1392 bp

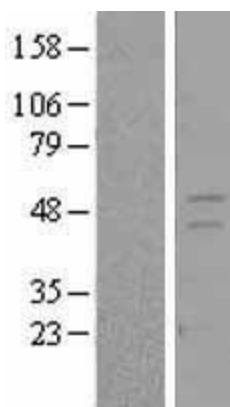
Locus ID: 6258

<b>UniProt ID:</b>	<a href="#">P48443</a>
<b>Cytogenetics:</b>	1q23.3
<b>Domains:</b>	HOLI, zf-C4
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Non-small cell lung cancer, Pathways in cancer, PPAR signaling pathway, Small cell lung cancer, Thyroid cancer
<b>MW:</b>	50.9 kDa
<b>Gene Summary:</b>	This gene encodes a member of the retinoid X receptor (RXR) family of nuclear receptors which are involved in mediating the antiproliferative effects of retinoic acid (RA). This receptor forms dimers with the retinoic acid, thyroid hormone, and vitamin D receptors, increasing both DNA binding and transcriptional function on their respective response elements. This gene is expressed at significantly lower levels in non-small cell lung cancer cells. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jun 2010]

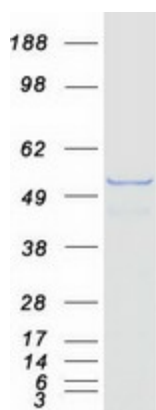
### Product images:



Circular map for RC204093



Western blot validation of overexpression lysate (Cat# [LY402059]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204093 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RXRG protein (Cat# [TP304093]). The protein was produced from HEK293T cells transfected with RXRG cDNA clone (Cat# RC204093) using MegaTran 2.0 (Cat# [TT210002]).