

Product datasheet for **RG204093**

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:	TurboGFP
Symbol:	Retinoid X Receptor gamma
Synonyms:	NR2B3; RXRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG204093 representing NM_006917
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTATGGAAATTATTCTCACTTCATGAAGTTTCCCGCAGGCTATGGAGGCTCCCCTGGCCACACTGGCT
 CTACATCCATGAGCCATCAGCAGCCTTGTCCACAGGGAAGCCAATGGACAGCCACCCAGCTACACAGA
 TACCCAGTGAGTCCCCACGGACTCTGAGTGCAGTGGGACCCCTCAATGCCCTGGGCTCTCCATAT
 CGAGTCATCACCTCTGCCATGGGCCACCCTCAGGAGCACTTGCAGCGCCTCCAGGAATCAACTGGTTG
 CCCCACCCAGCTCTCAGCTAAATGTGGTCAACAGTGTGAGCAGTTGAGGACATCAAGCCCTTACCAGG
 GCTTCCCGGATTGAAACATGAACTACCCATCCACCAGCCCGGATCTCTGGTTAAACACATCTGTGCC
 ATCTGTGGAGACAGATCCTCAGGAAAGCACTACGGGTATACAGTTGTGAAGGCTCAAAGGTTCTTCA
 AGAGGACGATAAGGAAGGACCTCATCTACAGTGTGGGATAATAAGACTGCCTATTGACAAGCGTCA
 GCGCAACCGCTGCCAGTACTGTGCTATCAGAAGTGCCTTGTGATGGGCATGAAGAGGGAAGCTGTCAA
 GAAGAAAGACAGAGGAGCCGAGAGCGAGCTGAGAGTGAGGCAGAATGTGCTACCAGTGGTATGAAGACA
 TGCTGTGGAGAGGATTCTAGAAGCTGAACTTGCTGTTGAACCAAGACAGAATCCTATGGTGACATGAA
 TATGGAGAACTCGACAAATGACCCTGTTACCAACATATGTGATGCTGCTGACAAGCAGCTTTTACCCTC
 GTTGAATGGGCCAAGCGTATCCCACTTCTCTGACCTCACCTTGGAGGACCAGGTCATTTTGTCTCGGG
 CAGGGTGAATGAATTGCTGATTGCCTCTTCTCCACCAGCTCAGTTCCGTGCAGGATGGCATCCTTCT
 GGCCACGGGTTTACATGTCCACCGGAGCAGTGGCCACAGTGTGGGGTCCGCTCCATCTTTGACAGATC
 CTAAGTGTGCTGGTTTCCAAAATGAAAGACATGCAGATGGACAAGTCGGAAGTGGGATGCCTGCGAGCCA
 TTGTACTCTTTAAACCCAGATGCCAAGGGCCTGTCCAACCCCTCTGAGGTGGAGACTTGGGAGAGAAGGT
 TTATGCCACCCTTGAGGCTACACCAAGCAGAAGTATCCGGAACAGCCAGGAGGTTTGCCAAGCTGCTG
 CTGCGCCTCCAGCTCTGCGTTCATTGCTTGAATGCCTGGAGCACCTTCTTCTTCAAGCTCATCG
 GGGACACCCCATGACACCTTCTCATGGAGATGTTGGAGACCCCGCTGCAGATCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204093 representing NM_006917
 Red=Cloning site Green=Tags(s)

MYGNYSHFMPAGYGGSPGHTGSTSMPSAALSTGKPMDSHPSTDPVSAPRTLSAVGTPLNALGSPY
 RVITSAMGPPSGALAAPPINLVAPPSSQLNVVNSVSSSEDIKPLPGLPGIGNMNYPSTSPGSLVKHICA
 ICDRSSGKHYGVYSCEGCKGFFKRTIRKDLIYTCRDNKDCLIDKRQRNRCQYCRYQKCLVMGMKREAVQ
 EERQRSRERAESAECATSGHEDMPVERILEAELAVEPKTESYGDMMENSTNDPVTNICHAAADKQLFTL
 VEWAKRIPHFSDLTLEDQVILLRAGWNELLIASFSHRVSVQDGILLATGLHVHRSSAHSAGVGSIFDRV
 LTELVSKMKDMQMDKSELGCLRAIVLFPNPAKGLSNPSEVETLREKVYATLEAYTKQKYPEQGRFAKLL
 LRLPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLETPLQIT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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.

RefSeq: [NM_006917.5](#)

RefSeq Size: 1856 bp

RefSeq ORF: 1392 bp

Locus ID: 6258

UniProt ID: [P48443](#)

Cytogenetics: 1q23.3

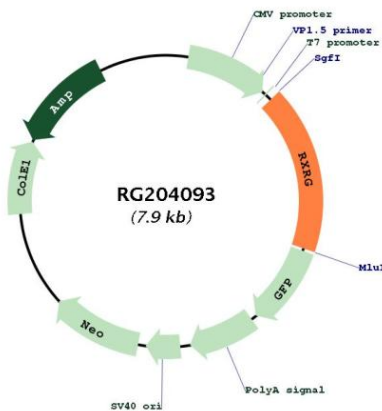
Domains: HOLI, zf-C4

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Adipocytokine signaling pathway, Non-small cell lung cancer, Pathways in cancer, PPAR signaling pathway, Small cell lung cancer, Thyroid cancer

Gene Summary: 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 RG204093