

Product datasheet for **RG233817**

Retinoid X Receptor gamma (RXRG) (NM_001256570) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor gamma (RXRG) (NM_001256570) 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)
ORF Nucleotide Sequence:	>RG233817 representing NM_001256570 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGA~~ACT~~ACCCATCCACCAGCCCCGGATCTCTGGTTAAACACATCTGTGCCATCTGTGGAGACAGATCCT
CAGGAAAGCACTACGGGGTATACAGTTGTGAAGGCTGCAAAGGGTTCTTCAAGAGGACGATAAGGAAGGA
CCTCATCTACACGTGTCGGGATAATAAAGACTGCCTCATTGACAAGCGTCAGCGCAACCGCTGCCAGTAC
TGTCGCTATCAGAAGTGCCTTGTCATGGGCATGAAGAGGGAAGCTGTGCAAGAAGAAAGACAGAGGACCC
GAGAGCGAGCTGAGAGTGAGGCAGAATGTCTACCAAGTGGTTCATGAAGACATGCCTGTGGAGAGGATTCT
AGAAGCTGAACCTGCTGTTGAACCAAAGACAGAAATCCTATGGTGACATGAATATGGAGAAGCTCGACAAAT
GACCCCTGTTACCAACATATGTCATGCTGCTGACAAGCAGCTTTTACCCTCGTTGAATGGCCAAGCGTA
TTCCCCACTTCTCTGACCTCACCTTGGAGGACCAGGTCATTTTGTCTCGGGCAGGGTGAATGAATTGCT
GATTGCTCTTTCTCCACCGCTCAGTTTCCGTGCAGGATGGCATCCTTCTGGCCACGGGTTTACATGTC
CACCGGAGCAGTGCCACAGTGTGGGGTGGCTCCATCTTTGACAGAGTCTAACTGAGCTGGTTTCCA
AAATGAAAGACATGCAGATGGACAAGTCGGAAGTGGGATGCGTGCAGGCCATTGTACTCTTTAACCCAGA
TGCCAAGGGCCTGTCCAACCCCTCTGAGGTGGAGACTTGCAGAGAGAAGGTTTATGCCACCCCTTGAGGCC
TACACCAAGCAGAAGTATCCGGAACAGCCAGGCTTTGCCAAGCTGCTGCTGCCCTCCAGCTCTGC
GTTCCATTGGCTTGAAATGCCTGGAGCACCTCTTCTTCAAGCTCATCGGGGACACCCCAATTGACAC
CTTCTCATGGAGATGTTGGAGACCCCGCTGCAGATCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233817 representing NM_001256570
 Red=Cloning site Green=Tags(s)

MNYPSTSPGSLVKHICAI CGDRSSGKHVGVYSCEGCKGFFKRTIRKDLIYTCRDNDCLIDKRQRNRCQY
 CRYQKCLVMGMKREAVQEERQSRERAESAECATSGHEDMPVERILEAELAVEPKTESYGDMMENSTN
 DPVTNICHAAADKQLFTLVEWAKRIPHFSDLTLEDQVILLRAGWNELLIASFHRSSVSVQDGILLATGLHV
 HRSSAHSAGVGSIFDRVLTSLVSKMKDMQMDKSELGCLRAIVLFNPDAGLSNPSEVETLREKVYATLEA
 YTKQKYPEQPGRFAKLLLRPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLETPLQIT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256570

ORF Size: 1020 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_001256570.1](#), [NP_001243499.1](#)

RefSeq Size: 2263 bp

RefSeq ORF: 1023 bp

Locus ID: 6258

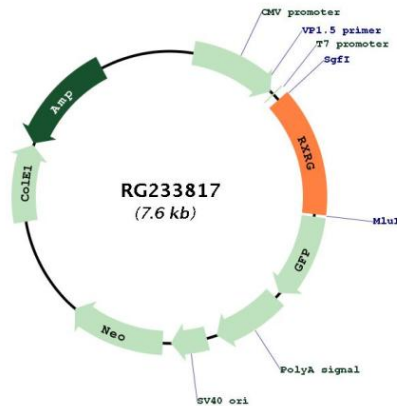
Cytogenetics: 1q23.3

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 RG233817