

Product datasheet for **RG238216**

Retinoid X Receptor alpha (RXRA) (NM_001291920) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor alpha (RXRA) (NM_001291920) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RXRA
Synonyms:	NR2B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238216 representing NM_001291920. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGCCCCCTCGCTGCACCCGTCCTGGGGCTGGCATCGGCTCCCCGGGACAGCTGCATTCTCCC
ATCAGCACCCCTGAGCTCCCCATCAACGGCATGGGCCCGCTTTCTCGGTATCAGCTCCCCATGGGC
CCCCACTCCATGTCGGTGCCACCACCCACCCTGGGCTTCAGCACTGGCAGCCCCAGCTCAGCTCA
CCTATGAACCCCGTCAGCAGCAGCGAGGACATCAAGCCCCCTGGGCTCAATGGCGTCTCAAGGTC
CCCGCCACCCCTCAGGAAACATGGCTTCTTACCAAGCACATCTGCGCCATCTGCGGGGACCGCTCC
TCAGGCAAGCACTATGGAGTGTACAGCTGCGAGGGGTGCAAGGGTCTTCAAGCGGACGGTGCGCAAG
GACCTGACCTACACCTGCCGCGACAACAAGGACTGCCTGATTGACAAGCGGCAGCGGAACCGGTGCCAG
TACTGCCGCTACCAGAAGTGCCTGGCCATGGGCATGAAGCGGGAAGCCGTGCAGGAGGAGCGGCAGCGT
GGCAAGGACCGGAACGAGAATGAGGTGGAGTGCACCAGCAGCGCAACGAGGACATGCCGGTGGAGAGG
ATCCTGGAGGCTGAGCTGGCCGTGGAGCCCAAGACCGAGACCTACGTGGAGGCAAAACATGGGGCTGAAC
CCCAGCTCGCCGAACGACCCTGTACCAACATTTGCCAAGCAGCCGACAAACAGCTTTTACCCTGGTG
GAGTGGGCCAAGCGGATCCACACTTCTCAGAGCTGCCCTGGACGACCAGGTATCCTGCTGCGGGCA
GGCTGGAATGAGCTGCTCATCGCTCCTTCTCCACCGCTCCATCGCGTGAAGGACGGGATCCTCCTG
GCCACCGGGCTGCAGTCCACCGAACAGCGCCACAGCGCAGGGGTGGGCGCCATCTTTGACAGGGTG
CTGACGGAGCTTGTGTCCAAGATGCGGGACATGCAGATGGACAAGACGGAGCTGGGCTGCCTGCCGCC
ATCGTCTCTTTAACCTGACTCCAAGGGCTCTCGAACC CGCCGAGGTGGAGGCGCTGAGGGAGAAG
GTCTATGCGTCTTGAGGCCTACTGCAAGCACAAGTACCCAGAGCAGCCGGGAAGGTTCTGTAAGCTC
TTGCTCCGCTGCCGGCTCTGCGTCCATCGGGCTCAAATGCCTGGAACATCTCTTCTTCAAGCTC
ATCGGGGACACCCATTGACACCTTCTTATGGAGATGCTGGAGGCGCCGACCAAATGACT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



View online »

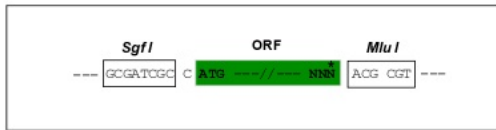
Protein Sequence: >Peptide sequence encoded by RG238216
 Blue=ORF Red=Cloning site Green=Tag(s)

MAAPSLHPSLGPGLGSPGQLHSPISLTLSSPINGMGPPFSVISSPMGPHSMSVPTTPTLGFSTGSPQLSS
 PMNPVSSSEDIKPLGLNGVLKVPAAHPSGNMASFTKHICAICGDRSSGKHVYSGCEGCKGFFKRTVRK
 DLTYTCDRDNKDCLIDKRQRNRCQYCRYQKCLAMGMKREAVQEERQRGKDRNENEVESTSSANEDMPVER
 ILEAEHAVEPKTETYVEANMGLNPSSPNDPVTNICQAADKQLFTLVEWAKRIPHFSELPLDDQVILLRA
 GWNELLIASFHSRSIAVKDGIILLATGLHVHRNSAHSAGVGAIFDRVLTLYSKMRDMQMDKTELGCLRA
 IVLFNPDSKGLSNPAEVEALREKVVYASLEAYCKHKYEQPGRFAKLLLRPALRSIGLKCLEHLFFFKL
 IGDTPIDTFLMEMLEAPHQMT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoRI BamHI KpnI RBS SgfI AscI

CTATAGGCGCGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCCGCGCATCGCCGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

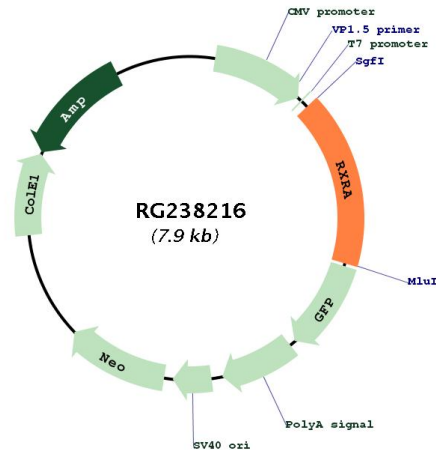
CAAGCTTAAGTACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - - -

T R T R P L E M E S D - - -

PmeI FseI

- - - GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:


ACCN: NM_001291920

ORF Size: 1305 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).

RefSeq: [NM_001291920.1](#), [NP_001278849.1](#)

RefSeq Size: 6202 bp

RefSeq ORF: 1308 bp

Locus ID: 6256

Cytogenetics: 9q34.2

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

MW: 48.4 kDa

Gene Summary:

Retinoid X receptors (RXRs) and retinoic acid receptors (RARs) are nuclear receptors that mediate the biological effects of retinoids by their involvement in retinoic acid-mediated gene activation. These receptors function as transcription factors by binding as homodimers or heterodimers to specific sequences in the promoters of target genes. The protein encoded by this gene is a member of the steroid and thyroid hormone receptor superfamily of transcriptional regulators. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2014]