

Product datasheet for **RG237739**

Retinoid X Receptor alpha (RXRA) (NM_001291921) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor alpha (RXRA) (NM_001291921) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Retinoid X Receptor alpha
Synonyms:	NR2B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237739 representing NM_001291921. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACCCCGTCAGCAGCAGCGAGGACATCAAGCCCCCTGGGCCTCAATGGCGTCCTCAAGGTCCCC
GCCACCCCTCAGGAAACATGGCTTCCTCACCAAGCACATCTGCGCCATCTGCGGGGACCGCTCCTCA
GGCAAGCACTATGGAGTGTACAGCTGCGAGGGGTGCAAGGGCTTCTTCAAGCGGACGGTGCGAAGGAC
CTGACCTACACCTGCCGACACAAGGACTGCCTGATTGACAAGCGGCAGCGGAACCGGTGCCAGTAC
TGCCGCTACCAGAAGTGCCTGGCCATGGGCATGAAGCGGAAGCCGTGCAGGAGGAGCGGCAGCGTGGC
AAGGACCGGAACGAGAATGAGGTGGAGTCGACCAGCAGCGCAACGAGGACATGCCGGTGGAGAGGATC
CTGGAGGCTGAGCTGGCCGTGGAGCCCAAGACCGAGACCTACGTGGAGGCAACATGGGGCTGAACCCC
AGCTCGCCGAACGACCCTGTCAACAACATTTGCCAAGCAGCCGACAAACAGCTTTTACCCTGGTGGAG
TGGGCCAAGCGGATCCCACACTTCTCAGAGCTGCCCTGGACGACCAGGTTCATCCTGCTGCGGGCAGGC
TGGAAATGAGCTGCTCATCGCCTCCTTCTCCACCGCTCCATCGCCGTGAAGGACGGGATCCTCCTGGCC
ACCGGGCTGCACGTCCACCGAACAGCGCCACAGCGCAGGGGTGGGCGCCATCTTTGACAGGGTGTG
ACGGAGCTTGTGTCCAAGATGCGGGACATGCAGATGGACAAGACGGAGCTGGGCTGCCTGCGGCCATC
GTCCTCTTTAACCTGACTCCAAGGGGCTCTCGAACCCGGCCGAGGTGGAGGCGCTGAGGGAGAAGGTC
TATCGTCTTTGGAGGCTACTGCAAGCAAGTACCCAGAGCAGCGGGAAGTTCCGCTAAGCTCTTG
CTCGCCTGCCGGCTCTGCGCTCCATCGGGCTCAAATGCCTGGAACATCTTCTTCTTCAAGCTCATC
GGGACACACCCATTGACACCTTCTTATGGAGATGCTGGAGGCGCCGACCAAAATGACT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237739
 Blue=ORF Red=Cloning site Green=Tag(s)

MNPVSSSEDIKPPLGLNGVLKVPAPHSNMAFSTKHICAI CGDRSSGKHYGVYSCEGCKGFFKRTVRKD
 LTYTCRDNDCLIDKRQRNRCQYCRYQKCLAMGMKREAVQEERQKDRNENEVESTSSANEDMPVERI
 LEAELAVEPKTETYVEANMGLNPSSPNDPVTNICQAADKQLFTLVEWAKRIPHFSELPLDDQVILLRAG
 WNELLIASFSHRISIAVKDGILLATGLHVHRNSAHSAGVGAIFDRVLTEL VSKMRDMQMDKTELGLCLRAI
 VLFNPD SKGLSNPAEVEALREKVVYASLEAYCKHKYPEQGRFAKLLLRPALRSIGLKCLEHLFFFKLI
 GDTPIDTFLMEMLEAPHQMT
 TRTRPLEMESDESLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001291921

ORF Size: 1095 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.

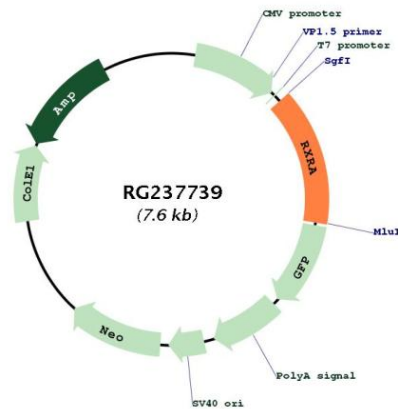
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001291921.2](#)

RefSeq Size: 5993 bp

RefSeq ORF:	1098 bp
Locus ID:	6256
UniProt ID:	P19793
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:	41.5 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]

Product images:



Circular map for RG237739