

Product datasheet for **RG200516**

Retinoid X Receptor beta (RXRB) (NM_021976) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor beta (RXRB) (NM_021976) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Retinoid X Receptor beta
Synonyms:	DAUDI6; H-2RIIBP; NR2B2; RCoR-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200516 representing NM_021976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTGGGCCGCTCGCCGCCCTTCTCCCTCAGCGGCATGCCGCAGGGCAGTGTGGCCGGTGGGG
 TGCAGAAAAGAAATGCATTGTGGGTTCGCTCCCGTGGCGGCGGCGACGGCCCTGGCTGGATCCCGCAGC
 GGCGGCGCGCGCGCGGTGGCAGCGGAGAACAAACCCCGGAGCCGAGCCAGGGGAGGCTGGACGG
 GACGGGATGGGCGACAGCGGGCGGACTCCCGAAGCCAGACAGCTCCTCCCAAATCCCCTTCCCAGG
 GAGTCCCTCCCCTTCTCCTCCTGGGCCACCCCTACCCCTTCAACAGCTCCATCCCTTGGAGGCTCTGG
 GGCCCCACCCCAACCCCGATGCCACCACCCCACTGGGCTCTCCCTTCCAGTCATCAGTTCTTCCATG
 GGGTCCCTGGTCTGCCCTCCAGCTCCCGAGGATTCTCCGGGCTGTGAGCAGCCCCAGATTAAGT
 CAACAGTGTCACTCCCTGGGGTGGGTCTGGCCCCCTGAAGATGTGAAGCCACCAGTCTTAGGGTCCG
 GGGCTGCACTGTCCACCCCTCCAGTGGCCCTGGGGCTGGCAAACGGCTATGTGCAATCTGCGGGGAC
 AGAAGCTCAGGCAAACTACGGGGTTACAGCTGTGAGGGTTGAAGGGCTTCTCAAACGCACCATCC
 GCAAAGACCTTACATACTCTTGGCCGGACAACAAAGACTGCACAGTGGACAAGCGCCAGCGGAACCGCTG
 TCAGTACTGCCGCTATCAGAAGTGCCTGGCCACTGGCATGAAGAGGGAGGCGGTACAGGAGGAGCGT
 CAGCGGAAAGGACAAGGATGGGGATGGGGAGGGGCTGGGGAGCCCCGAGGAGATGCCTGTGGACAGGA
 TCCTGGAGGCAGAGCTTGCTGTGGAACAGAAGAGTGACCAGGGCGTTGAGGGTCTGGGGAAACGGGGG
 TAGCGGCAGCAGCCAAATGACCCTGTGACTAACATCTGTGAGGAGTGCAGGAGTGCAGGAGTATTCAGCCT
 GTTGAGTGGGCGAAGAGGATCCACACTTTTCTCCTTGCTCTGGATGATCAGGTATGTTGAGATGCCATCCCT
 TGCCACAGGTCTTACGTGCACCAGCACTCAGCCATTACAGAGGAGTAGGAGCCATCTTTGATCGGGTG
 CTGACAGAGCTAGTGTCCAAATGCGTGACATGAGGATGGACAAGACAGAGCTTGCTGCCTGAGGGCAA
 TCATTCTGTTAATCCAGATGCCAAGGGCTCTCCAACCCTAGTGAAGTGGAGGCTGCGGGAGAAAGT
 GTATGCATCACTGGAGACCTACTGCAAACAGAAGTACCCTGAGCAGCAGGGACGGTTTGCAGGCTGCTG
 CTACGTCTTCTGCCCTCCGGTCCATTGGCCTTAAGTGTCTAGAGCATCTGTTTTCTTCAAGCTCATTG
 GTGACACCCCATCGACACCTTCTCATGGAGATGCTTGAAGCTCCCATCAACTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200516 representing NM_021976
 Red=Cloning site Green=Tags(s)

MSWAARPPFLPQRHAAGQCQPVGVRKEMHCGVASRWRRRRPWLDPAAAAAAVAGGEQQTPEPEPGEAGR
 DGMGDSGRDSRSPDSSSPNPLPQGVPPSPPPPLPSTAPSLGSGAPPPPPMPPPLGSPFPVSISSM
 GSPGLPPPAPPFGSPVSSPQINSTVSLPGGGSPPEDEVKPPVLGVRGLHCPGGPGAGKRLCAICGD
 RSSGKHVYVYSCEGCKGFFKRTIRKDLTYSCRDNKDVDRQRNRCQYCRYQKCLATGMKREAVQEERQ
 RGKDKDGDGEGAGGAPPEMPVDRIEAEAVEQKSDQVVEGPGGTGGSGSPNDPVTNICQAADKQLFTL
 VEWAKRIPHFSSPLDDQVILLRAGWNELLIASFSHRSIDVRDGIILLATGLHVHRNSAHSAGVGAIFDRV
 LTELVSVMRDMRMDKTELGLRAIILFNPDAKGLSNPSEVEVLREKVYASLETYCKQKYPEQQGRFAKLL
 LRLPALRSIGLKCLEHLFFFLIGDTPIDTFLMEMLEAPHQLA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021976

ORF Size: 1599 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_021976.2](#)

RefSeq Size: 2892 bp

RefSeq ORF: 1602 bp

Locus ID: 6257

UniProt ID: [P28702](#)

Cytogenetics: 6p21.32

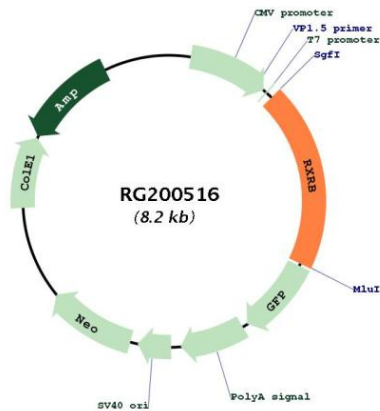
Domains: HOLI, zf-C4

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 effects of retinoic acid (RA). The encoded protein forms homodimers with the retinoic acid, thyroid hormone, and vitamin D receptors, increasing both DNA binding and transcriptional function on their respective response elements. This gene lies within the major histocompatibility complex (MHC) class II region on chromosome 6. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG200516