

Product datasheet for **RC200516**

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:	Myc-DDK
Symbol:	RXRB
Synonyms:	DAUDI6; H-2RIIBP; NR2B2; RCoR-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC200516 representing NM_021976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTGGGCCGCTCGCCGCCCTTCTCCCTCAGCGGCATGCCGCAGGGCAGTGTGGCCGGTGGGG
 TGCAGAAAAGAAATGCATTGTGGGTTCGCTCCCGTGGCGGGCGGACGGCCCTGGCTGGATCCCGCAGC
 GGCGGGCGGGCGGGTGGCAGGCGGAGAACAAACCCCGGAGCCGAGCCAGGGGAGGCTGGACGG
 GACGGGATGGGCGACAGCGGGGGACTCCCGAAGCCAGACAGCTCCTCCCAAATCCCCTTCCCAGG
 GAGTCCCTCCCCCTTCTCCTCCTGGGCCACCCCTACCCCTTCAACAGCTCCATCCCTTGGAGGCTCTGG
 GGCCCCACCCCAACCCCGATGCCACCACCCCACTGGGCTCTCCCTTCCAGTCATCAGTTCTTCCATG
 GGGTCCCTGGTCTGCCCTCCAGCTCCCGAGGATTCTCCGGGCTGTGACGAGCCCGAGATTAAC
 CAACAGTGTCACTCCCTGGGGTGGGTCTGGCCCCCTGAAGATGTGAAGCCACCACTTAGGGTCCG
 GGGCTGCACTGTCCACCCCTCCAGTGGCCCTGGGGTGGCAAACGGCTATGTCAATCTGCGGGGAC
 AGAAGCTCAGGCAAACTACGGGGTTACAGCTGTGAGGGTTGCAAGGGCTTCTCAAACGCACCATCC
 GCAAAGACCTTACATACTTGGCCGGACAACAAAGACTGCACAGTGGACAAGCGCCAGCGGAACCGCTG
 TCAGTACTGCCGCTATCAGAAGTGCCTGGCCACTGGCATGAAGAGGGAGGCGGTACAGGAGGAGCGT
 CAGCGGAAAGGACAAGGATGGGGATGGGGAGGGGCTGGGGAGCCCGAGGAGATGCCTGTGGACAGGA
 TCCTGGAGGCAGAGCTTGTGTGAACAGAAGAGTGACCAGGGCGTTGAGGGTCTGGGGAAACCGGGG
 TAGCGGCAGCAGCCAAATGACCCTGTGACTAACATCTGTGAGGAGTGCAGGAGTGCAGGAGTATTCACGCTT
 GTTGTGAGTGGGCGAAGAGGATCCACACTTTTCTCCTTGCCTCTGGATGATCAGGTCAATTTGCTGCGG
 CAGGCTGGAATGAACTCCTCATTGCCTTTTACACCGATCCATTGATGTTGAGATGGCATCCTCCT
 TGCCACAGGTCTTACGTGCACCGCAACTCAGCCATTACAGAGGAGTAGGAGCCATCTTTGATCGGGTG
 CTGACAGAGCTAGTGTCCAAATGCGTGACATGAGGATGGACAAGACAGAGCTTGGCTGCCTGAGGGCAA
 TCATTCTGTTAATCCAGATGCCAAGGGCTCTCCAACCTAGTGAGGTGGAGGCTCTGCGGGAGAAAGT
 GTATGCATCACTGGAGACCTACTGCAAACAGAAGTACCCTGAGCAGCAGGGACGGTTTGCAGGCTGCTG
 CTACGTCTTCTGCCCTCCGGTCCATTGGCCTTAAGTGTCTAGAGCATCTGTTTTCTTCAAGCTCATTG
 GTGACACCCCATCGACACCTTCTCATGGAGATGCTTGGGCTCCCATCAACTGGCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200516 representing NM_021976
 Red=Cloning site Green=Tags(s)

MSWAARPPFLPQRHAAGQCGPVGVRKEMHCGVASRWRRRRPWLDPAAAAAAVAGGEQQTPEPEPGEAGR
 DGMGDSGRDSRSPDSSSPNPLPQGVPPSPGPPPLPSTAPSLGGSGAPPPPPMPPPLGSPFPVSSSM
 GSPGLPPPAPPGFSGPVSSPQINSTVSLPGGSGPPEDVKPPVLGVRGLHCPGGGPGAGKRLCAICGD
 RSSGKHYGVYSCEGCKGFFKRTIRKDLTYSCRDNKDVDRQRNRQCYCRYQKCLATGMKREAVQEERQ
 RGKDKDGDGEGAGGAPEEMPVDRILEAELAVEQKSDQGVGEGGGTGGSGSPNDPVTNICQAADKQLFTL
 VEWAKRIPHFSSLPLDDQVILLRAGWNELLIASFSHRSDVDRGILLATGLHVHRNSAHSAGVGAIFDRV
 LTELVSVMRDMRMDKTELGLRAIILFNPDAKGLSNPSEVEVLREKVYASLETYQKQKYPEQQGRFAKLL
 LRLPALRSIGLKCLEHLFFFLIGDTPIDTFLMEMLEAPHQLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

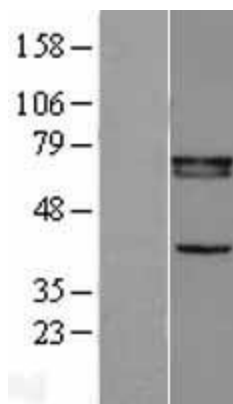
Chromatograms:

https://cdn.origene.com/chromatograms/mg2588_f09.zip

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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
MW:	56.7 kDa
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:

Western blot validation of overexpression lysate (Cat# [LY402896]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200516 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).