

## Product datasheet for RC237622

### Retinoid X Receptor beta (RXRB) (NM\_001291989) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor beta (RXRB) (NM_001291989) 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
ORF Nucleotide Sequence:	>RC237622 representing NM_001291989 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCGAGTGTGGAGGTGGCCCTGGGGCTGGCAAACGGCTATGTGCAATCTGCGGGGACAGAAGCTCAG  
GCAAACACTACGGGTTTACAGCTGTGAGGGTTGCAAGGGCTTCTCAAACGCACCATCCGCAAAGACCT  
TACATACTCTTGCCGGGACAACAAAGACTGCACAGTGGACAAGCGCCAGCGGAACCGCTGTCACTACTGC  
CGCTATCAGAAGTGCCTGGCCACTGGCATGAAGAGGGAGGCGGTACAGGAGGAGCGTACAGCGGGGAAAGG  
ACAAGGATGGGGATGGGAGGGGGCTGGGGGAGCCCCGAGGAGATGCCTGTGGACAGGATCCTGGAGGC  
AGAGCTTGCTGTGGAACAGAAGAGTGACCAGGGCGTTGAGGGTCTGGGGGAACCGGGGTAGCGGCAGC  
AGCCCAAATGACCCTGTGACTAACATCTGTGAGGAGCTGACAAACAGCTATTACGCTTGTGAGTGGG  
CGAAGAGGATCCACACTTTTCTCCTTGCCCTGATGATCAGGTCATATTGCTGCGGGCAGGCTGGAA  
TGAACCTCTCATTGCCTCCTTCTCACACCGATCCATTGATGTTGAGATGGCATCCTCCTGCCACAGGT  
CTTCACGTGACCGCAACTCAGCCATTGAGGAGGAGTGGAGCCATCTTGGATCGGTCCTCCTCCAGGG  
TGCTGACAGAGTAGTGTCCAAAATGCGTGACATGAGGATGGACAAGACAGAGCTTGGCTGCCTGAGGGC  
AATCATTCTGTTAATCCAGATGCCAAGGGCTCTCCAACCTAGTGAGGTGGAGGTCCTGCGGGAGAAA  
GTGTATGCATCACTGGAGACCTACTGCAAACAGAAGTACCCTGAGCAGCAGGGACGGTTTCCAAAGCTGC  
TGCTACGTCTTCTGCCCTCCGGTCCATTGGCCTTAAGTGTCTAGAGCATCTGTTTTTCTCAAGCTCAT  
TGGTGACACCCCATCGACACCTTCTCATGGAGATGCTTGGAGCTCCCATCAACTGGCC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237622 representing NM\_001291989  
 Red=Cloning site Green=Tags(s)

MRECGGGPGAGKRLCAICGDRSSGKHYGVYSCEGCKGFFKRTIRKDLTYSCRDNKDCTVDRQRNRCQYC  
 RYQKCLATGMKREAVQEERQGRGKDKDGDGEGAGGAPPEMPVDRILEAELAVEQKSDQGVGPGGTGGSGS  
 SPNDPVTNICQAADKQLFTLVEWAKRIPHFSSPLDDQVILLRAGWNELLIASFSHRSIDVRDGILLATG  
 LHVHRNSAHSAGVGAIFDRSLSRVLTELVSKMRDMRMDKTELGCLRAIILFNPDAGLSNPSEVEVLREK  
 VYASLETYCKQKYPEQQGRFAKLLLRPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLEAPHQLA

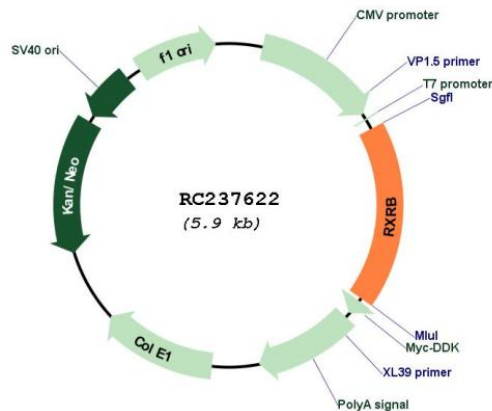
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001291989

**ORF Size:** 1041 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291989.1</a> , <a href="#">NP_001278918.1</a>
<b>RefSeq Size:</b>	2212 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	6257
<b>Cytogenetics:</b>	6p21.32
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Non-small cell lung cancer, Pathways in cancer, PPAR signaling pathway, Small cell lung cancer, Thyroid cancer
<b>MW:</b>	39 kDa
<b>Gene Summary:</b>	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]