

## Product datasheet for **SC319407**

### Retinoid X Receptor beta (RXRB) (NM\_021976) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor beta (RXRB) (NM_021976) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinoid X Receptor beta
Synonyms:	DAUDI6; H-2RIIBP; NR2B2; RCoR-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_021976.3  
 CAAAGATGGCTGCCACATTGGCGCTGTCAATTTGGTACTGAGCAGAGCGACGGGCTTAAT  
 TCGACCCAATCCAGGCCAGAGTCTTTCTCTCAGGGGCTTCTCTGCTCAGCTAATCCTC  
 CGATCAATCCTTGGGAATCCCTGGGACCTTTCGGTATCCCTACTCTCAGCCAGGGATCA  
 TGTCTTGGGCCGCTCGCCCGCCCTTCTCCCTCAGCGCATGCCGAGGGCAGTGTGGGC  
 CGGTGGGGTGC AAAAGAAATGCATTGTGGGTGCGTCCCGGTGGCGGCGGACGCGC  
 CCTGGCTGGATCCCGCAGCGGCGGCGGCGGCGGTGGCAGGCGGAGAACAACAACCC  
 CGGAGCCGGAGCCAGGGGAGGCTGGACGGGACGGGATGGGCGACAGCGGGCGGGACTCCC  
 GAAGCCCAGACAGCTCCTCCCAAAATCCCCTTCCCAGGGAGTCCCTCCCCTTCTCCTC  
 CTGGGCCACCCCTACCCCTTCAACAGCTCCATCCCTTGGAGGCTCTGGGGCCCCACCC  
 CACCCCGATGCCACCACCCCACTGGGCTCTCCCTTTCAGTCACTAGTTCTTCCATGG  
 GGTCCCCTGGTCTGCCCTCCAGCTCCCCAGGATTCTCGGGCTGTGAGCAGCCCC  
 AGATTAACCAACAGTGTACTCCCTGGGGTGGGTCTGGCCCCCTGAAGATGTGAAGC  
 CACCAGTCTTAGGGTCCGGGCTGACTGTCCACCCCTCCAGGTGGCCCTGGGGCTG  
 GCAAACGGCTATGTGCAATCTGCGGGGACAGAAGCTCAGGCAAACTACGGGTTTACA  
 GCTGTGAGGGTTGCAAGGCTTCTTCAAACGCACCATCCGCAAAGACCTTACATACTCTT  
 GCCGGGACAACAAGACTGCACAGTGGACAAGCGCCAGCGGAACCGCTGTGACTACTGCC  
 GCTATCAGAAGTGCCTGGCCACTGGCATGAAGAGGGAGGCGGTACAGGAGGAGCGTCAGC  
 GGGGAAAGGACAAGGATGGGGATGGGGAGGGGGCTGGGGAGCCCCGAGGAGATGCCTG  
 TGGACAGGATCCTGGAGGCAGAGCTTGTGTGGAACAGAAGAGTACCAGGGCGTTGAGG  
 GTCTGGGGAAACCGGGGTAGCGGCAGCAGCCAAATGACCCTGTGACTAACATCTGTG  
 AGGCAGCTGACAAACAGCTATTCACGCTTGTGAGTGGGCGAAGAGGATCCACACTTTT  
 CCTCTGCTCTGGATGATCAGGTCAATTTGCTGCGGGCAGGCTGGAATGAACTCCTCA  
 TTGCCTCCTTTTACACCGATCCATTGATGTTGAGATGGCATCCTCCTTGCCACAGGTC  
 TTCACGTGACCCCAACTCAGCCATTACAGCAGGAGTAGGAGCCATCTTTGATCGGGTGC  
 TGACAGAGCTAGTGTCCAAAATGCGTGACATGAGGATGGACAAGACAGAGCTTGGCTGCC  
 TGAGGGCAATCATTCTGTTTAATCCAGATGCCAAGGGCTCTCCAACCTAGTGAGGTGG  
 AGGTCTCGGGGAGAAAGTGTATGCATCACTGGAGACCTACTGCAAAACAGAAGTACCCTG  
 AGCAGCAGGGACGGTTTGCCAAGCTGCTGCTACGTCTTCTGCCCTCCGGTCCATTGGCC  
 TTAAGTGTCTAGAGCATCTGTTTTTCTTCAAGCTCATTGGTGACACCCCATCGACACT  
 TCCTCATGGAGATGCTTAGGCTCCCCAACAAGTGGCCTGAGCTCAGACCCAGACGTGGT  
 GCTTCTCACACTGGAGGAGCACACATCCAAGAGGACTCCAAGCCCTGGGGCAGGGTGGG  
 GGGCCATGTTCCAGAACCTTGATGGGGTGAGAAGTACAGGGCAGAACCAAGAACATAAA  
 CCCTCCAAGGGATCTGCTTGATATCCCAAGTTGGAAGGGACCCAGATACCTGTGAGGAC  
 TGGTTGTCTCTTTCGGTGGCCTTGAAGTCTGAAATTTGTCGGGGTCTCCCATGATTTGG  
 GGTGATTTCTCACCTCTGTCTTCCCCAGCACAAAGCACTGGCCTTGCTCCAGGACC  
 TTGCTTCTTCTCATCTTGCCTCATTTTGTCTCCATCTGAAGAGTGGAAATGGGAACT  
 CCCCAGAGGTGGATACTGGGGGCAGGCTCCCAAGCTGATGGACATGAGAGTAGGGCC  
 CTGACAGGCCTTCTCCTCTCAAACCTGGCAGATGGGGCCTCTCTGGAAGAGGGAGGGG  
 CCTGTCACTGTCCAGAGTCTTTTTTACACTCACCTCCTTCTGCACTCAGACTGAAAT  
 ATAAAAAAGTGGTGGTGGTGAAGGGCTGGTGGAGATGTAGGAACCGATCTGCTAT  
 TTTAATTTCTGTGAGGATAGAGACTTGCAGTTAGACTCAAAGAAGTACTGTACTTTCC  
 CAGGTTGACTAAGAAATGCCAGTGGTGGAGGTGGTGTGGGAAAGGCAGGGCCCTGAA  
 ATGGCCTGTCCCTAGGGCTCTCAAGCACTAGCCTTCCAGCTTCCCGCCGCCCCCCCCA  
 TCTTCTCTGCTAACTTGGGAAGGGCCTGGGCTGTGAGGACAGGGCCCCACAGGGG  
 ATGGTTTACAGAGTGTAGTCCCGGAGGCCTTCCCTTACAGCTCTCTCCAGCCCTGGG  
 ACATAGCATAGGCTGGGACACAGGATCCTGGCCTGAGAATTGAGGGAGGTGGCCAGCC  
 CGCAGAGGTGGGGTCTGGGGCTGCATGATTTTTGCCCTGCGTCCCTTCTTTGGGGCT  
 CCTTCCCTCTCATACATAAAATCGCTTCAAATTA AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

<b>ACCN:</b>	NM_021976
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_021976.3</a></u> , <u><a href="#">NP_068811.1</a></u>
<b>RefSeq Size:</b>	2892 bp
<b>RefSeq ORF:</b>	1602 bp
<b>Locus ID:</b>	6257
<b>UniProt ID:</b>	<u><a href="#">P28702</a></u>
<b>Cytogenetics:</b>	6p21.32
<b>Domains:</b>	HOLI, zf-C4
<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

**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]

Transcript Variant: This variant (2) uses an alternate splice site in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.