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Product datasheet for SC335516

Retinoid X Receptor beta (RXRB) (NM_001291989) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor beta (RXRB) (NM_001291989) Human Untagged Clone
Tag:	Tag Free
Symbol:	RXRB
Synonyms:	DAUDI6; H-2RIIBP; NR2B2; RCoR-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335516 representing NM_001291989. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCGCGAGTGTGGAGGTGGCCCTGGGGCTGGCAAACGGCTATGTGCAATCTGCGGGGACAGAAGCTCA GGCAAACACTACGGGGTTTACAGCTGTGAGGGTTGCAAGGGCTTCTTCAAACGCACCATCCGCAAAGAC CTTACATACTCTTGCCGGGACAACAAAGACTGCACAGTGGACAAGCGCCAGCGGAACCGCTGTCAGTAC TGCCGCTATCAGAAGTGCCTGGCCACTGGCATGAAGAGGGAGGCGGTACAGGAGGAGCGTCAGCGGGGA AAGGACAAGGATGGGGATGGGGAGGGGGCTGGGGGAGCCCCCGAGGAGATGCCTGTGGACAGGATCCTG GAGGCAGAGCTTGCTGTGGAACAGAAGAGTGACCAGGGCGTTGAGGGTCCTGGGGGAACCGGGGGTAGC GGCAGCAGCCCAAATGACCCTGTGACTAACATCTGTCAGGCAGCTGACAAACAGCTATTCACGCTTGTT GAGTGGGCGAAGAGGATCCCACACTTTTCCTCCTTGCCTCTGGATGATCAGGTCATATTGCTGCGGGCA GGCTGGAATGAACTCCTCATTGCCTCCTTCTCACACCGATCCATTGATGTTCGAGATGGCATCCTCCTT GCCACAGGTCTTCACGTGCACCGCAACTCAGCCCATTCAGCAGGAGTAGGAGCCATCTTTGATCGGTCC CTCTCCAGGGTGCTGACAGAGCTAGTGTCCAAAATGCGTGACATGAGGATGGACAAGACAGAGCTTGGC TGCCTGAGGGCAATCATTCTGTTTAATCCAGATGCCAAGGGCCTCTCCAACCCTAGTGAGGTGGAGGTC CTGCGGGAGAAAGTGTATGCATCACTGGAGACCTACTGCAAACAGAAGTACCCTGAGCAGCAGGGACGG TTTGCCAAGCTGCTGCTACGTCTTCCTGCCCTCCGGTCCATTGGCCTTAAGTGTCTAGAGCATCTGTTT TTCTTCAAGCTCATTGGTGACACCCCCATCGACACCTTCCTCATGGAGATGCTTGAGGCTCCCCATCAA CTGGCCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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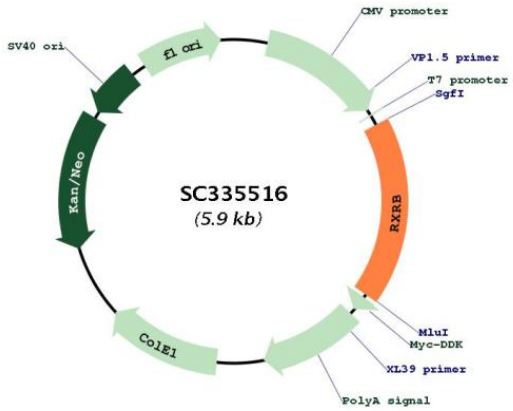
Plasmid Map:



ACCN:	NM_001291989
Insert Size:	1044 bp
OTI Disclaimer:	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).
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_001291989.1
RefSeq Size:	2212 bp
RefSeq ORF:	1044 bp
Locus ID:	6257
Cytogenetics:	6p21.32
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: 38.5 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]
Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus compared to 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.