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Product datasheet for SC119567

Retinoic Acid Receptor beta (RARB) (NM_000965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor beta (RARB) (NM_000965) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinoic Acid Receptor beta
Synonyms:	HAP; MCOPS12; NR1B2; RARbeta1; RRB2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC119567 sequence for NM_000965 edited (data generated by NextGen Sequencing)

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ATGTTTGACTGTATGGATGTTCTGTCAGTGAGTCCTGGGCAAATCCTGGATTTCTACACT
GCGAGTCCGTCTTCCTGCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTCAGTGGATTG
ACCCAAACCGAATGGCAGCATCGGCACACTGCTCAATCAATTGAAACACAGAGCACCAGC
TCTGAGGAACTCGTCCCAAGCCCCCCATCTCCACTTCCTCCCCCTCGAGTGTACAAACCC
TGCTTCGTCTGCCAGGACAAATCATCAGGGTACCACTATGGGGTCAGCGCCTGTGAGGGA
TGTAAGGGCTTTTTCCGCAGAAGTATTCAGAAGAATATGATTTACACTTGTCACCGAGAT
AAGAACTGTGTTATTAATAAAGTCACCAGGAATCGATGCCAATACTGTCGACTCCAGAAG
TGCTTTGAAGTGGGAATGTCCAAAGAATCTGTCAGGAATGACAGGAACAAGAAAAAGAAG
GAGACTTCGAAGCAAGAATGCACAGAGAGCTATGAAATGACAGCTGAGTTGGACGATCTC
ACAGAGAAGATCCGAAAAGCTCACCAGGAAACTTTCCCTTCACTCTGCCAGCTGGGTAAA
TACACCACGAATTCCAGTGCTGACCATCGAGTCCGACTGGACCTGGGCCTCTGGGACAAA
TTCAGTGAACTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTTGCTAAACGTCTGCCT
GGTTTCACTGGCTTGACCATCGCAGACCAAATTACCCTGCTGAAGGCCGCCTGCCTGGAC
ATCCTGATTCTTAGAATTTGCACCAGGTATACCCCAGAACAAGACACCATGACTTTCTCA
GACGGCCTTACCCTAAATCGAACTCAGATGCACAATGCTGGATTTGGTCCTCTGACTGAC
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CTTCTCAGTGCCATCTGCTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCGACAAAA
GTAGATAAGCTACAAGAACCATTGCTGGAAGCACTAAAAATTTATATCAGAAAAAGACGA
CCCAGCAAGCCTCACATGTTTCCAAAGATCTTAATGAAAATCACAGATCTCCGTAGCATC
AGTGCTAAAGGTGCAGAGCGTGTAATTACCTTGAAAATGGAAATTCCTGGATCAATGCCA
CCTCTCATTCAAGAAATGCTGGAGAATTCTGAAGGACATGAACCCTTGACCCCAAGTTCA
AGTGGGAACACAGCAGAGCACAGTCCTAGCATCTCACCCAGCTCAGTGGAAAACAGTGGG
GTCAGTCAGTCACCACTCGTGCAATAA

Clone variation with respect to NM_000965.3
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View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000965 unedited
GCATTTTGTATACGACTCACTATAGGGCGGCCGCGCAATTCGCACGAGGGTCTGTCATAA
TTCATGGATTCGGGNNGCTGGGAAAAAGACCAACAGCCTACGTGCCAAAAAAGGGCAGAG
TTTGATGGAGTTGGGTGGACTTTTCTATGCCATTTGCCTCCACACCTAGAGGATAAGCAC
TTTTGCAGACATTCAGTGCAAGGGAGATCATGTTTGACTGTATGGATGTTCTGTCAGTGA
GTCCTGGGCAAATCCTGGATTTCTACACTGCGAGTCCGTCTTCCTGCATGCTCCAGGAGA
AAGCTCTCAAAGCATGCTTCAGTGGATTGACCCAAACCGAATGGCAGCATCGGCACACTG
CTCAATCAATTGAAACACAGAGCACCAGCTCTGAGGAACTCGTCCCAAGCCCCCCATCTC
CACTTCCTCCCCCTCGAGTGTACAAACCCTGCTTCGTCTGCCAGGACAAATCATCAGGGT
ACCACTATGGGGTCAGCGCCTGTGAGGGATGTAAGGGCTTTTTCCGCAGAAGTATTCAGA
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ATCGATGCCAATACTGTCGACTCCAGAAGTGCTTTGAAGTGGGAATGTCCAAAGAATCTG
TCAGGAATGACAGGGAACAGAAAAAGAAGGAGACTTCGAAGCAAGAATGCACAGAGAGCT
ATGAAATGACAGCTGAGTTGGACGATCTCACAGAGAAGATCCGAAAGCTCNACCAGAAAC
TTTCCCTCACTCTGCCAGCTGGGTAAATACACCACGAATTCCAGTGCTGACCATCGAGTT
CGACTGGACCTGGGCCTCTGGGACAAATTCATTGAACTGGCCACCAGTGCATTATTAAGA
TCGGGNAGATTGCTAAACGCTTGCCTGGTTCACTGGCTTGACATCGCAAACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000965 unedited
GGGGCTTTTGTGTGTTTTATGCTTTGCCGGNANACTCCTGGGAAAAGGTAAACAGTATAT
GAACATAGAAAGCATTGTTAAACAAACAATCTCAATGTACAAACAGAGCCAGTGAAAGTA
CATCACAGACTTGCTAATATATCAAAAAAAAAAAATTCCACTAGTGCTTAAATGAGAACT
AAGAAACTGACACTTGTATCTGTTAACCACTCTACCACAGCTTTCACTCTGCTTCATAGT
GATTGAACAAGGTCAAAGGAGGCAGATTCTATGCCTGTTTCTTTGGGAGTTGTTAATATT
AATTAGCCCCTTGGCATCAAGAAGGCTGGAAAAAAAAAATCCCAATATCAGGCATGAATCA
GGAAGGACACTAGAGTTACATGGTCCAGGTGGTAGACCAGCCTGCTAATTATCCCATGAA
ATTTCCCTAATGGCTTGTGAACAAGTAAACAAAAACTTAACACTGAAAAGTGTTTCTGCC
TTGGAGGCTATCATTACTGTAAAAAAATTTTTTTTTAACTGTGTAGTTATGTCATTAAAC
AAGTAATAAACCACTTTTAATTTAAAGTGACATTAACAATTGAACAAATGACATTTGATT
AACTGAACTGGCAGTTACACTGATACAGAATTCTCTTCTGCTAGTGCAGGGAATTTGTAT
ACTTTTACTGGGCAACATGAAATAAAAGATGCAGTTTGAGAGCATTAGAAAGAGCAAAGA
CAAGCCTCCCTACTAACCAAAGTAGAATATCTCTAGCCTTATCTTGTCATACTGTACATA
ATTCCTGTCCATAGACCTGTTTCCCTACCTTGAGTCTTGACTATTCCCCGAAACCCACAC
AGTTATTTTCTTGAACCTAGGTAAACCTGACCAGCAACCTATTTCTTAACCCTCGCGGCC
TGGCTCATTTTGATTTTGCAAAAAAACAGGAAAC

Restriction Sites: NotI-NotI

ACCN: NM_000965

Insert Size: 2900 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_000965.2, NP_000956.2
RefSeq Size:	3119 bp
RefSeq ORF:	1347 bp
Locus ID:	5915
UniProt ID:	P10826
Cytogenetics:	3p24.2
Domains:	HOLI, zf-C4
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Non-small cell lung cancer, Pathways in cancer, Small cell lung cancer
Gene Summary:	This gene encodes retinoic acid receptor beta, a member of the thyroid-steroid hormone receptor superfamily of nuclear transcriptional regulators. This receptor localizes to the cytoplasm and to subnuclear compartments. It binds retinoic acid, the biologically active form of vitamin A which mediates cellular signalling in embryonic morphogenesis, cell growth and differentiation. It is thought that this protein limits growth of many cell types by regulating gene expression. The gene was first identified in a hepatocellular carcinoma where it flanks a hepatitis B virus integration site. Alternate promoter usage and differential splicing result in multiple transcript variants. [provided by RefSeq, Mar 2014] Transcript Variant: This variant (1, also known as beta-2) is a predominant transcript. This variant can initiate translation from an upstream AUG site and also from a downstream, in-frame AUG site (PMID: 12118004). The isoform (1) represented in this RefSeq is derived from the upstream AUG start codon. 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.