

Product datasheet for **SC114395**

Retinoic Acid Receptor beta (RARβ) (NM_016152) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor beta (RARβ) (NM_016152) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinoic Acid Receptor beta
Synonyms:	HAP; MCOPS12; NR1B2; RARbeta1; RRB2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114395 sequence for NM_016152 edited (data generated by NextGen Sequencing)

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ATGATTTACACTTGTCACCGAGATAAGAACTGTGTTATTAATAAAGTCACCAGGAATCGA
TGCCAATACTGTCGACTCCAGAAGTGCTTTGAAGTGGAATGTCCAAGAATCTGTCAGG
AATGACAGGAACAAGAAAAAGAAGGAGACTTCAAGCAAGAATGCACAGAGAGCTATGAA
ATGACAGCTGAGTTGGACGATCTCACAGAGAAGATCCGAAAAGCTCACCAGGAACTTTC
CCTTCACTCTGCCAGCTGGGTAAATACACCACGAATCCAGTGCTGACCATCGAGTCCGA
CTGGACCTGGGCCTCTGGGACAAATTCAGTGAAGTGGCCACCAAGTGCATTATTAAGATC
GTGGAGTTTGCTAAACGTCTGCCTGGTTTCACTGGCTTGACCATCGCAGACCAAATTACC
CTGCTGAAGGCCCTGCCTGGACATCCTGATTCTTAGAATTTGCACCAGGTATACCCCA
GAACAAGACACCATGACTTTCTCAGACGGCCTTACCCTAAATCGAACTCAGATGCACAAT
GCTGGATTTGGTCTCTGACTGACCTTGTGTTACCTTTGCCAACAGCTCCTGCCTTTG
GAAATGGATGACACAGAAACAGGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAGACCGC
CAGGACCTTGAGGAACCGACAAAAGTAGATAAGCTACAAGAACCATTGCTGGAAGCACTA
AAAATTTATATCAGAAAAAGACGACCCAGCAAGCCTCACATGTTTCCAAAGATCTTAATG
AAAATCACAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGAATTACCTTGAAA
ATGGAAATTCCTGGATCAATGCCACCTCTCATTCAAGAAATGTGGAGAATTCTGAAGGA
CATGAACCTTGACCCCAAGTTCAAGTGGGAACACAGCAGAGCACAGTCCTAGCATCTCA
CCCAGCTCAGTGGAAAACAGTGGGGTCAGTCAGTCACCACTCGTGCAATAA
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Clone variation with respect to NM_016152.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016152 unedited</p> <pre> ACTTTTGTATACGACTCACTATAGGGCGGCCGATTCCGGCACGAGGCAGAAAGTAGTAG GAAGTGAGCTGTTTCCAGAGGCAGGAGGGTCTATTCTTTGCCAAAGGGGGACCAGAATTCC CCCATGCGAGCTGTTTGGAGACTGGGATGCCGAGAACGCGAGCGATCCGAGCAGGTTTG TCTGGGCACCGTCGGGGTAGGATCCGGAACGCATTCGGAAGGCTTTTTGCAAGCATTTAC TTGGAAGGAGAACTTGGGATCTTTCTGGGAACCCCGCCCGGCTGGATTGGCCGAGCA AGCCTGGAAAATGGTAAATGATCAATTTGGATCAATTACAGGCTTTTAGCTGGCTTGTCTG TCATAATTCATGATTCGGGGCTGGGAAAAAGACCAACAGCCTACGTGCCAAAAAGGGGC AGAGTTTGATGGAGTTGGGTGGACTTTTCTATGCCATTTGCCTCCACACCTAGAGGATAA GCACTTTTGCAGACATTCAGTGCAAGGGAGATCATGTTTGACTGTATGGATGTTCTGTCA GTGAGTCTGGGCAAACTCTGGATTTCTACACTGCGAGTCCGTTTTCTGCATGCTCCAG GAGAAAGCTCTCAAAGCATGCTTCAGTGGATTGACCCAAACCGAATGGCAGCATCGGCAC ACTGCTCAATCATTTGAACCCAGAGCACCAGCTCTGAGGAACTTGTTCGAAGCCCCCAT CTCCCCTTTCTCCCCTCGAGTGTACAAACCCTGCTTCTCTGCCAGGACAATCATCAGGG TCCCACCTTTGGGTCAACGCCCTGTGAGGAATGTAAGGCCTTTTCCGCANAGTTTCAA AAAATTTGATTTACCCTTGCCACCGAAAAAACTGTGTTTTAATTAAGTCCCAGGAAT CGTTGCCATCTCGTCGCCTCCCAAATTGTTTCGAAGAGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016152 unedited</p> <pre> CTATGGACCGGGCACGCAATCTAGGATCGAGTNTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTAAATAAATAAATATATTTTCTTGTCAGGGAACTCCATGGGAAAAAGGTA AACAGTATATGAACATAGAAAGCATTGTTAAACAAACAATCTCAATGTACAAACAGAGCC AGTGAAAGTACATCACATCACAGACTTGCTAATATATCAAAAAAAAAAAATCCACTAG GGCTTAAATGAAAATAAAAACTGACACTTGTATCTGTTAACCACTCTACCACAGCTTT CACTCTGCTTCATAGGGATTGAACAAGGGCAAAGGAGGCAGATTCTATGCCTGTTCTTT GGGAGTTGTTAATATTAATTAGCCCTTGGCATCAAGAAGGCTGGAAAAAAATCCCAA TATCAGGCATGAATCAGGAAGGACACTAGAGTTACATGGTCCAGGGGGTAAACCAGCCTG CTAATTATCCCATGAAATTTCCCTAATGGCTTGGGAACAAGTAAACAAAACTTAACACT GAAAAGTGTTCGCCTTGGAGGCTATCATTACTGGAAAAAATTTTTTAACTAACTG GGTAGTTATGTCATTAACAAGTAATAAACCCTTTTAATTTAAAGTGACATTAACAATN GAACAAATGACATTTGATTAACGAACTGGCAGTTACACTGATACAGAATTCTCTTCTG TAGTGCAGGGGAATTGTATACTTTTACTGGCAACCTGAAATAAAGATGCAGTTTGAGAG CCTCAGAAAGAGCAAGACAAGCTCCCTACTACCAAGAAAAATTCTTAGCCTTATCTGGCT ACGGACAAAGGCCTGAAAAGCCCGTTCTTACCTGGAGGCTGGACATCCAGAAAGCAGA AGGTTTCTTTGAACCAGGTAACGGTCCAGGCATTTCAAACCGGGGCAGGTTTGAAT TCAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_016152
Insert Size:	2500 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:	<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_016152.2 , NP_057236.1
RefSeq Size:	2762 bp
RefSeq ORF:	1011 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:	<p>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]</p> <p>Transcript Variant: This variant (2, also known as beta-4) has an alternate splice site in the 5' region, compared to variant 1. This variant can initiate translation from a non-AUG (CUG) site and also from a downstream, in-frame AUG site (PMID: 12118004). The isoform (2, also known as beta', formerly, beta-4) represented in this RefSeq is derived from the AUG start codon, and has a shorter N-terminus, compared to isoform 1. Three variants in this gene encode the same isoform 2.</p>