

Product datasheet for **RC238015**

Retinoic Acid Receptor beta (RARβ) (NM_001290300) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor beta (RARβ) (NM_001290300) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RARB
Synonyms:	HAP; MCOPS12; NR1B2; RARbeta1; RRB2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238015 representing NM_001290300 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGCTGAGTAGAATTGCCTTCCAGCAATTGAAACACAGAGCACCAGCTCTGAGGAAGCTGTCCTCCAA
GCCCCCATCTCCACTTCTCCCTCGAGTGTACAAACCCTGCTTCGTCCTGCCAGGACAAATCATCAGG
GTACCACTATGGGGTCAGCGCCTGTGAGGGATGTAAAGGCTTTTTCCGCAGAAGTATTCAGAAGAATATG
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GGAGACTTCAAGCAAGAATGCACAGAGAGCTATGAAATGACAGCTGAGTTGGACGATCTCACAGAGAAG
ATCCGAAAAGCTCACCAGGAACTTTCCCTTCACTCTGCCAGCTGGGTAATACACCACGAATCCAGTG
CTGACCATCGAGTCCGACTGGACCTGGGCTCTGGGACAAATTCAGTGAAGTGGCCACCAAGTGCATTAT
TAAGATCGTGGAGTTTGCTAAACGTCTGCCTGGTTTCACTGGCTTGACCATCGCAGACCAAAATACCCCTG
CTGAAGGCCGCTGCCTGGACATCCTGATTCTTAGAATTTGCACCAGGTATACCCAGAACAAGACCA
TGACTTTCTCAGACGGCCTTACCCTAAATCGAACTCAGATGCACAATGCTGGATTTGGTCTCTGACTGA
CCTTGTGTTACCTTTGCCAACAGCTCCTGCCTTTGAAATGGATGACACAGAAACAGGCTTCTCAGT
GCCATCTGCTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCGACAAAAGTAGATAAGCTACAAGAAC
CATTGCTGGAAGCACTAAAAATTTATATCAGAAAAAGACGCCAGCAAGCCTCACATGTTTCCAAAGAT
CTTAATGAAAATCACAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGAATACCTTAAAAATG
GAAATTCCTGGATCAATGCCACCTCTATTCAAGAAATGCTGGAGAATTTGAAGGACATGAACCTTGA
CCCCAAGTTCAAGTGGGAACACAGCAGAGCACAGTCTAGCATCTACCCAGCTCAGTGGAAAACAGTGG
GGTCAGTCAGTACCACCTCGTGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238015 representing NM_001290300
Red=Cloning site Green=Tags(s)

MKLSRIAFFPAIETQSTSSEELVSPSPSPLPPPRVYKPCFVQDKSSGYHYGVSACEGCKGFFRRSIQKNM
 IYCHRDKNCVINKVTRNRCQYCR LQKCFEVMGSKESVRNDRNKKKETSQKQECTESYEMTAELDDLTEK
 IRKAHQETFP SLCQLGKYTTNSSADHRVRLDLGLWDFSELATKCIKIIVFAKRLPGFTGLTIADQITL
 LKAACLDILILRICTRYTPEQDTMTFSDGLTLNRTQMHNAGFGPLTDLVFTFANQLLPLEMDDTETGLLS
 AICLICGDRQDLEETPKVDKLQEPLLEALKIYIRKRRPSKPHMFKILMKITDLRSISAKGAERVITLKM
 EIPGSMPLIQEMLENSGHEPLTPSSSGNTAEHSPSISPSSVENSQSVQSLVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

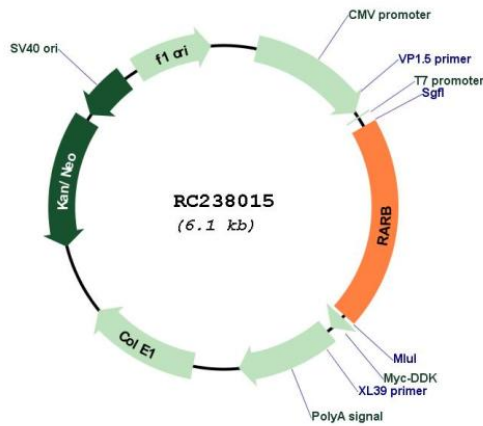
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290300

ORF Size:	1215 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001290300.1 , NP_001277229.1
RefSeq Size:	2686 bp
RefSeq ORF:	1218 bp
Locus ID:	5915
Cytogenetics:	3p24.2
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Non-small cell lung cancer, Pathways in cancer, Small cell lung cancer
MW:	46 kDa
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]