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# Product datasheet for RG237532

## Retinoic Acid Receptor beta (RARB) (NM_001290276) Human Tagged ORF Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Retinoic Acid Receptor beta (RARB) (NM_001290276) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Retinoic Acid Receptor beta |
| **Synonyms:** | HAP; MCOPS12; NR1B2; RARbeta1; RRB2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **ORF Nucleotide Sequence:** | >RG237532 representing NM_001290276.<br>Blue=ORF Red=Cloning site Green=Tag(s)<br><br>GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG<br>GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC<br>ATGATTTACACTTGTCACCGAGATAAGAACTGTGTTATTAATAAAGTCACCAGGAATCGATGCCAATAC<br>TGTCGACTCCAGAAGTGCTTTGAAGTGGGAATGTCCAAAGAATCTGTCAGGAATGACAGGAACAAGAAA<br>AAGAAGGAGACTTCGAAGCAAGAATGCACAGAGAGCTATGAAATGACAGCTGAGTTGGACGATCTCACA<br>GAGAAGATCCGAAAAGCTCACCAGGAAACTTTCCCTTCACTCTGCCAGCTGGGTAAATACACCACGAAT<br>TCCAGTGCTGACCATCGAGTCCGACTGGACCTGGGCCTCTGGGACAAATTCAGTGAACTGGCCACCAAG<br>TGCATTATTAAGATCGTGGAGTTTGCTAAACGTCTGCCTGGTTTCACTGGCTTGACCATCGCAGACCAA<br>ATTACCCTGCTGAAGGCCGCCTGCCTGGACATCCTGATTCTTAGAATTTGCACCAGGTATACCCCAGAA<br>CAAGACACCATGACTTTCTCAGACGGCCTTACCCTAAATCGAACTCAGATGCACAATGCTGGATTTGGT<br>CCTCTGACTGACCTTGTGTTCACCTTTGCCAACCAGCTCCTGCCTTTGGAAATGGATGACACAGAAACA<br>GGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCGACAAAAGTAGAT<br>AAGCTACAAGAACCATTGCTGGAAGCACTAAAAATTTATATCAGAAAAAGACGACCCAGCAAGCCTCAC<br>ATGTTTCCAAAGATCTTAATGAAAATCACAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGTA<br>ATTACCTTGAAAATGGAAATTCCTGGATCAATGCCACCTCTCATTCAAGAAATGCTGGAGAATTCTGAA<br>GGACATGAACCCTTGACCCCAAGTTCAAGTGGGAACACAGCAGAGCACAGTCCTAGCATCTCACCCAGC<br>TCAGTGGAAAACAGTGGGGTCAGTCAGTCACCACTCGTGCAA<br>ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC |



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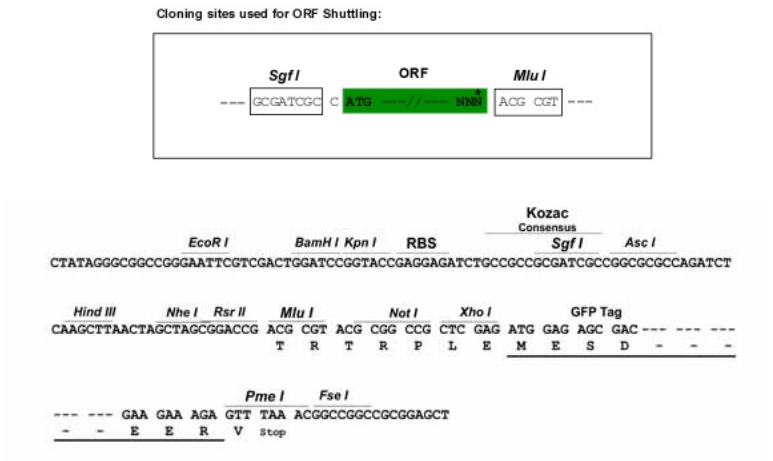
**Protein Sequence:**

>Peptide sequence encoded by RG237532
Blue=ORF Red=Cloning site Green=Tag(s)

MIYTCHRDKNCVINKVTRNRCQYCRLQKCFEVGMSKESVRNDRNKKKKETSKQECTESYEMTAELDDLT
EKIRKAHQETFPSLCQLGKYTTNSSADHRVRLDLGLWDKFSELATKCIIKIVEFAKRLPGFTGLTIADQ
ITLLKAACLDILILRICTRYTPEQDTMTFSDGLTLNRTQMHNAGFGPLTDLVFTFANQLLPLEMDDTET
GLLSAICLICGDRQDLEEPTKVDKLQEPLLEALKIYIRKRRPSKPHMFPKILMKITDLRSISAKGAERV
ITLKMEIPGSMPPLIQEMLENSEGHEPLTPSSSGNTAEHSPSISPSSVENSGVSQSPLVQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001290276

**ORF Size:** 1008 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).

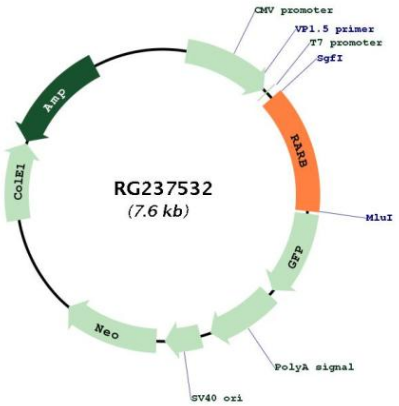
**RefSeq:** NM_001290276.1, NP_001277205.1

**RefSeq Size:** 3222 bp

**RefSeq ORF:** 1011 bp

| | |
|---|---|
| **Locus ID:** | 5915 |
| **UniProt ID:** | P10826 |
| **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:** | 38.4 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] |

## Product images:




Circular map for RG237532