

## Product datasheet for **RG237998**

### Retinoic Acid Receptor beta (RARβ) (NM\_001290277) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor beta (RARβ) (NM_001290277) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RARB
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:	>RG237998 representing NM_001290277. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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CCCTTGACCCCAAGTTCAAGTGGGAACACAGCAGAGCACAGTCTAGCATCTCACCAGCTCAGTGGAA
AACAGTGGGGTCAGTCAGTCACCACTCGTGCAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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Protein Sequence: >Peptide sequence encoded by RG237998  
 Blue=ORF Red=Cloning site Green=Tag(s)

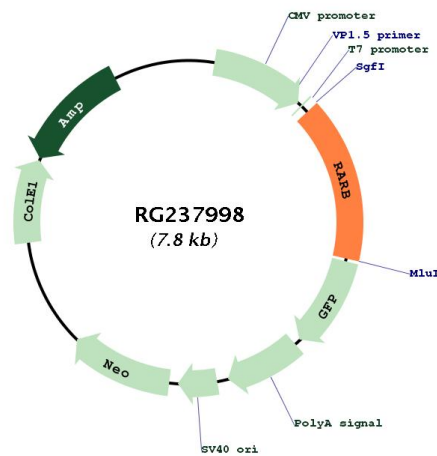
MFDCMDVLSVSPGQILDFTASPSSCMLQEKALKACFSGLTQTEWQHRHTAQSIIETQSTSSEELVPSP  
 SPLPPPRVYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMIYTCRDKNCVINKVTRNRCQYCR  
 QKCFEVMGSKESVRNDRNKKKETSQKQCTESYEMTAELDDLTEKIRKAHQETFPSLCQLGKYTTNSSA  
 DHRVRLDLGLWDFSELATKCIKIVEFAKRLPGFTGLTIADQITLLKAACLDILLPLLEMDDETGLL  
 SAICLICGDRQDLEPTKVDKLQEPLLEALKIYIRKRRPSKPHMFPKILMKITDLRSISAKGAERVITL  
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**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001290277
<b>ORF Size:</b>	1206 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001290277.1</a> , <a href="#">NP_001277206.1</a>
<b>RefSeq Size:</b>	3084 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	5915
<b>Cytogenetics:</b>	3p24.2
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Non-small cell lung cancer, Pathways in cancer, Small cell lung cancer
<b>MW:</b>	45.6 kDa
<b>Gene Summary:</b>	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]