

Product datasheet for **RG237972**

Retinoic Acid Receptor beta (RARβ) (NM_001290266) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor beta (RARβ) (NM_001290266) 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:	>RG237972 representing NM_001290266. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
CTGGAAAATGCAATTGAAACACAGAGCACCAGCTCTGAGGAACTCGTCCCAAGCCCCCATCTCCACTT
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CCAAGTCAAGTGGGAACACAGCAGAGCACAGTCTAGCATCTCACCCAGCTCAGTGAAAAACAGTGGG
GTCAGTCACTCACCCTCGTGCAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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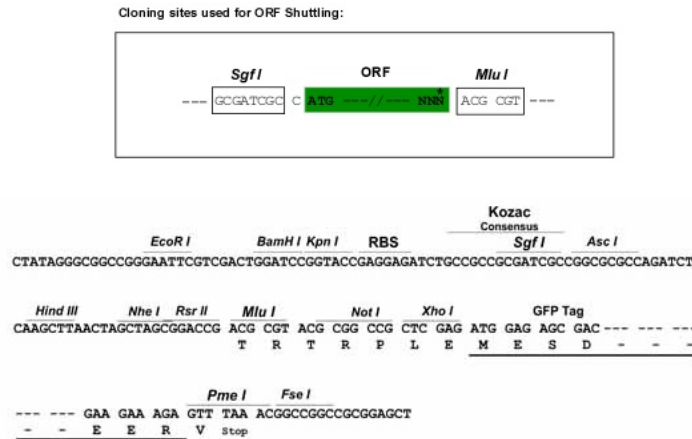
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237972
 Blue=ORF Red=Cloning site Green=Tag(s)

LENAIETQSTSSEELVSPSPSPLPPPRVYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMIYTC
 RDKNCVINKVTRNRCQYCR LQKCFEVMGSKESVRNDRNKKKETSQECTESYEMTAELDDLTEKIRKA
 HQETFPSLCQLGKYTTNSSADHRVRLDLGLWDFSELATKCIKIVEFAKRLPGFTGLTIADQITLLKA
 ACLDILILRICTRYTPEQDTMTFSDGLTLNRTQMHNAGFGPLTDLVFTFANQLLPLEMDDTETGLLSAI
 CLICGDRQDLEEPTKVDKLQEPLLEALKIYIRKRRPSKPHMFKILMKITDLRSISAKGAERVITLKME
 IPGSMPLIQEMLENSEGHEPLTPSSSGNTAEHSPSISPSVENSQVSSQSPLVQ
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001290266

ORF Size: 1197 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_001290266.1](#), [NP_001277195.1](#)

RefSeq Size: 2865 bp

RefSeq ORF: 1200 bp
 Locus ID: 5915
 UniProt ID: [P10826](#)

Cytogenetics: 3p24.2

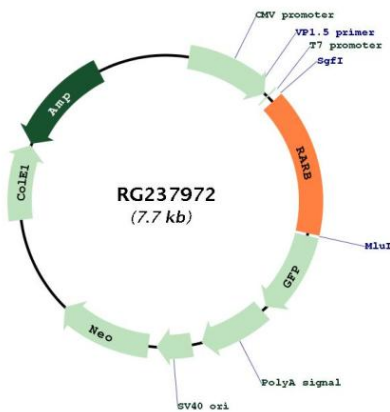
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Non-small cell lung cancer, Pathways in cancer, Small cell lung cancer

MW: 45.3 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 RG237972