

## Product datasheet for **RG208666**

### ROR beta (RORB) (NM\_006914) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ROR beta (RORB) (NM_006914) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ROR beta
Synonyms:	bA133M9.1; EIG15; NR1F2; ROR-BETA; RZR-BETA; RZRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208666 representing NM\_006914  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGAGCACAAATTGAAGTGATACCATGCAAAATTTGTGGCGATAAGTCCTCTGGGATCCACTACGGAG  
 TCATCACATGTGAAGGCTGCAAGGGATTCTTAGGAGGAGCCAGCAGAACAATGCTTCTTATTCTGCC  
 AAGGCAGAGAAACTGTTTAATTGACAGAACGAACAGAAACCGTTGCCAACACTGCCGACTGCAGAAGTG  
 CTTGCCCTAGGAATGTCAAGAGATGCTGTGAAGTTGGGAGAATGTCCAAGAAGCAAAGGACAGCCTGT  
 ATGCTGAGGTGCAGAAGCACCAGCAGCGGCTGCAGGAACAGCGGCAGCAGCAGAGTGGGGAGGCAGAAGC  
 CCTTGCCAGGGTGTACAGCAGCAGCATTAGCAACGGCCTGAGCAACCTGAACAACGAGACCAGCGGCACT  
 TATGCCAACGGGCAGTCATTGACCTGCCCAAGTCTGAGGGTTATTACAACGTCGATTCCGGTCAGCCGT  
 CCCCTGATCAGTCAGGACTTGACATGACTGGAATCAAACAGATAAAGCAAGAACCATCTATGACCTCAC  
 ATCCGTACCCAATTGTTTACCTATAGCTCTTTCAACAATGGGCAGTTAGCACCAGGGATAACCATGACT  
 GAAATCGACCGAATTGCACAGAACATCATTAAAGTCCCATTTGGAGACATGCAATACACCATGGAAGAGC  
 TGCACCAGCTGGCGTGGCAGACCCACACCTATGAAGAAATTAAGCATATCAAAGCAAGTCCAGGGAAGC  
 ACTGTGGCAACAATGTGCCATCCAGATCACTCACGCCATCCAATACGTGGTGGAGTTTGCAGGCGGATA  
 ACAGGCTTCATGGAGCTCTGTCAAAATGATCAAATCTACTTCTGAAGTCAGGTTGCTTGGAAAGTGGTTT  
 TAGTGAGAATGTCCGTGCCCTTCAACCCATTAACAACACTGTTCTGTTTGAAGGAAAATATGGAGGAAT  
 GCAAAATGTTCAAAGCCTTAGGTTCTGATGACCTAGTGAATGAAGCATTGACTTTGCAAAGAATTTGTGT  
 TCCTTGACAGTGCACCGAGGAGGATCGCTTTGTTCTCATCTGCTGTTCTGATATCTCCAGACCGAGCCT  
 GGCTTATAGAACAAGGAAAGTCCAGAAGCTTCAGGAAAAAATTTATTTTGCACCTCAACATGTGATTCA  
 GAAGAATCACCTGGATGATGAGACCTTGCCAAAGTTAATAGCCAAGATACCAACCATCACGCGAGTTTGC  
 AACTTGACGCGGGAGAAGCTGCAGGTATTTAAGCAATCTCATCCAGAGATAGTGAATACACTGTTTCCTC  
 CGTTATACAAGGAGCTCTTAATCCTGACTGTGCCACCGCTGCAAA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208666 representing NM\_006914  
 Red=Cloning site Green=Tags(s)

MRAQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQNNASYSQPRQRNCLIDRTNRRNCQHRLQKC  
 LALGMSRDAVKFGRMSKKQRDSL YAEVQKHQRLQEQRQQSGEAEALARYVSSSISNGLSNLNNETSGT  
 YANGHVIDLPKSEGYYNVDSGQSPDQSGLDMTGIKQIKQEPIDLTSPNLFYSSFNNGQLAPGITMT  
 EIDRIAQNIKSHLETCQYTMEEHLQLAWQHTHYEEIKAYQSKSREALWQQCAIQITHAIQYVVEFAKRI  
 TGFMELCQNDQILLKSGCLEVVLVRMCRANPLNNTVLFEGKYGMQMFKALGSDDLVNEAFDFAKNLC  
 SLQLTEEEIALFSSAVLISPDRAWLIEPRKVQKLQEKIYFALQHVIQKNHLDDDELAKLIAKIPTITAVC  
 NLHGEKLQVFKQSHPEIVNTLFPPLYKELFNPDCATGCK

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_006914

**ORF Size:** 1377 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:**

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\\_006914.3](#), [NP\\_008845.2](#)

**RefSeq Size:** 3604 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 6096

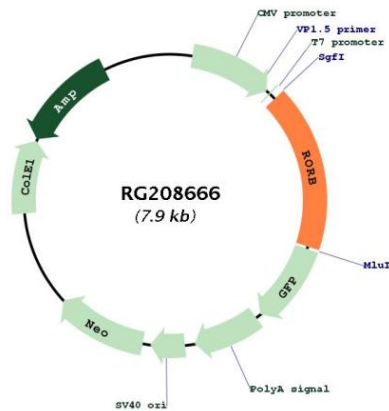
**Cytogenetics:** 9q21.13

**Domains:** HOLI, zf-C4

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

**Gene Summary:** The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It is a DNA-binding protein that can bind as a monomer or as a homodimer to hormone response elements upstream of several genes to enhance the expression of those genes. The encoded protein has been shown to interact with NM23-2, a nucleoside diphosphate kinase involved in organogenesis and differentiation, and to help regulate the expression of some genes involved in circadian rhythm. [provided by RefSeq, Feb 2014]

**Product images:**



Circular map for RG208666