

## Product datasheet for **RG206541**

### ROR gamma (RORC) (NM\_005060) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ROR gamma (RORC) (NM_005060) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ROR gamma
Synonyms:	IMD42; NR1F3; RORG; RZR-GAMMA; RZRG; TOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206541 representing NM\_005060  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACAGGGCCCCACAGAGACAGCACCAGCCTCACGGGAGCTGCTGGTGC~~AAAGAAGACCCACACCT~~  
 CACAAATTGAAGTGATCCCTTGCAAATCTGTGGGACAAGTCGCTGGGATCCACTACGGGTTATCAC  
 CTGTGAGGGGTGCAAGGGCTTCTCCGCCGGAGCCAGCGCTGTAACGCGGCTACTCCTGCACCCGTCAG  
 CAGAACTGCCCATCGACCCGACCAGCCGAAACCGATGCCAGCACTGCCGCTGCAGAAATGCCTGGCGC  
 TGGGCATGTCCCAGATGCTGTCAAGTTCGGCCGATGTCCAAGAAGCAGAGGGACAGCCTGCATGCAGA  
 AGTGCAGAAACAGCTGCAGCAGCGGCAACAGCAGCAACAGGAACCAAGTGGTCAAGACCCCTCCAGCAGGG  
 GCCAAGGAGCAGATACCCTCACCTACACCTTGGGGCTCCAGACGGGACAGCTGCCCTGGGCTCCTCGC  
 CTGACCTGCCTGAGGCTTCTGCCTGTCCCCTGGCCTCCTGAAAGCCTCAGGCTCTGGGCCCTCATATTC  
 CAACAACCTGGCCAAGGCAGGGCTCAATGGGGCTCATGCCACCTGAATACAGCCCTGAGCGGGGCAAG  
 GCTGAGGGCAGAGAGCTTCTATAGCACAGGCAGCCAGCTGACCCTGACCGATGTGGACTTCGTTTTG  
 AGGAACACAGGCATCCTGGGCTTGGGAACTGGGACAGGGCCAGACAGCTACGGCAGCCCCAGTTTCCG  
 CAGCACACCGGAGGCACCTATGCCTCCCTGACAGAGATAGAGCACCTGGTGCAGAGCGTCTGCAAGTCC  
 TACAGGGAGACATGCCAGCTGCGGCTGGAGGACCTGCTGCGGCAGCGCTCCAACATCTTCTCCCGGAGG  
 AAGTGACTGGCTACCAGAGGAAGTCCATGTGGGAGATGTGGGAACGGTGTGCCACCACCTACCCGAGGC  
 CATTCACTAGTGGTGGAGTTCGCCAAGAGGCTCTCAGGCTTATGGAGCTCTGCCAGAATGACCAGATT  
 GTGCTTCTCAAAGCAGGACCAATGGAAGTGGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 GCACGGTCTTTTTGAAGGCAAATACGGTGGCATGGAGCTGTTCCGAGCCTTGGGCTGCAGCGGATCAT  
 CAGCTCCATCTTTGACTTCTCCCACTCCCTAAAGTGCCTTGCACTTTTCCGAGGATGAGATTGCCCTCTAC  
 ACAGCCCTTGTTCATCAATGCCATCGCCAGGGCTCCAAGAGAAAAGGAAAGTAGAACAGCTGCAGT  
 ACAATCTGGAGCTGGCCTTTCATCATCATCTCTGCAAGACTCATCGCAAAGCATCCTGGCAAAGCTGCC  
 ACCCAAGGGGAAGCTTCGGAGCCTGTGTAGCCAGCATGTGAAAGGCTGCAGATCTCCAGCACCTCCAC  
 CCCATCGTGGTCCAAGCCGCTTCCCTCCACTCTACAAGGAGCTTTCAGCACTGAAACCGAGTCACCTG  
 TGGGGCTGTCCAAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206541 representing NM\_005060  
 Red=Cloning site Green=Tags(s)

MDRAPQRQHRASRELLAAKKTHTSQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQRCAAYSTRQ  
 QNCPIDRTSRNRCQHRLQKCLALGMSRDAVKFGRMSKKQRDSLHAEVQKQLQQRQQQQEPVVKTPPAG  
 AQGADTLTYTLGLPDGQLPLGSSPDLPEASACPPGLLKASGSGPSYNNLAKAGLNGASCHLEYSPEK  
 AEGRESFYSTGSQTPDRCGLRFEHRHPGLGELGQGPDSYGSPSFRSTPEAPYASLIEHLVQSVCKS  
 YRETCQLRLEDLLRQRSNIFSREEVTGYQRKSMWEMWERCAHHLTEAIQYVVEFAKRLSGFMELCQNDQI  
 VLLKAGAMEVVLVRMCRAYNADNRTVFFEGKYGMELFRALGCSELISSIFDFSHLSALHFSEDEIALY  
 TALVLIINAHRPGLQEKRVQY  
 PIVVQAAPPLYKELFSTETESPVGLSK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_005060

**ORF Size:** 1554 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\\_005060.4](#)

**RefSeq Size:** 3084 bp

**RefSeq ORF:** 1557 bp

**Locus ID:** 6097

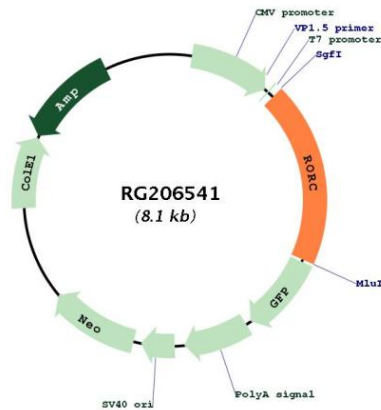
**UniProt ID:** [P51449](#)

**Cytogenetics:** 1q21.3

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** The protein encoded by this gene is a DNA-binding transcription factor and is a member of the NR1 subfamily of nuclear hormone receptors. The specific functions of this protein are not known; however, studies of a similar gene in mice have shown that this gene may be essential for lymphoid organogenesis and may play an important regulatory role in thymopoiesis. In addition, studies in mice suggest that the protein encoded by this gene may inhibit the expression of Fas ligand and IL2. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG206541