

## Product datasheet for **RC206541**

### 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:	Myc-DDK
Symbol:	ROR gamma
Synonyms:	IMD42; NR1F3; RORG; RZR-GAMMA; RZRG; TOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC206541 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACAGGGCCCCACAGAGACAGCACCAGCCTCACGGGAGCTGCTGGTGCAAAGAAGACCCACACCT  
 CACAAATTGAAGTGATCCCTTGCAAATCTGTGGGGACAAGTCGCTGGGATCCACTACGGGTTATCAC  
 CTGTGAGGGGTGCAAGGGCTTCTCCGCCGGAGCCAGCGCTGTAACGCGGCTACTCCTGCACCCGTCAG  
 CAGAACTGCCCCATCGACCGCACCAGCCGAAACCGATGCCAGCACTGCCGCTGCAGAAATGCCTGGCGC  
 TGGGATGTCCCAGATGCTGTCAAGTTCGGCCGATGTCCAAGAAGCAGAGGGACAGCCTGCATGCAGA  
 AGTGCAGAAACAGCTGCAGCAGCGGCAACAGCAGCAACAGGAACCAAGTGGTCAAGACCCCTCCAGCAGGG  
 GCCAAGGAGCAGATACCCTCACCTACACCTTGGGGCTCCAGACGGGCAGCTGCCCTGGGCTCCTCGC  
 CTGACCTGCCTGAGGCTTCTGCCTGTCCCCTGGCCTCCTGAAAGCCTCAGGCTCTGGGCCCTCATATTC  
 CAACAACCTGGCCAAGGCAGGGCTCAATGGGGCTCATGCCACCTGAATACAGCCCTGAGCGGGGCAAG  
 GCTGAGGGCAGAGAGCTTCTATAGCACAGGCAGCCAGCTGACCCTGACCGATGTGGACTTCGTTTTG  
 AGGAACACAGGCATCCTGGGCTTGGGAACTGGGACAGGGCCAGACAGCTACGGCAGCCCCAGTTCCG  
 CAGCACACCGGAGGCACCTATGCCTCCCTGACAGAGATAGAGCACCTGGTGCAGAGCGTCTGCAAGTCC  
 TACAGGGAGACATGCCAGCTGCGGCTGGAGGACCTGCTGCGGCAGCGCTCCAACATCTTCTCCCGGAGG  
 AAGTGACTGGCTACCAGAGGAAGTCCATGTGGGAGATGTGGGAACGGTGTGCCACCACCTACCCGAGGC  
 CATTAGTACGTGGTGGAGTTCGCCAAGAGGCTCTCAGGCTTTATGGAGCTCTGCCAGAATGACCAGATT  
 GTGCTTCTCAAAGCAGGAGCAATGGAAGTGGTGTGGTGGTAGGATGTCCGGGCTTACAATGCTGACAACC  
 GCACGGTCTTTTTGAAGGCAAATACGGTGGCATGGAGCTGTTCCGAGCCTTGGGCTGCAGCGGCTCAT  
 CAGCTCCATCTTTGACTTCTCCACTCCCTAAAGTGCCTTGCACTTTCCGAGGATGAGATTGCCCTCTAC  
 ACAGCCCTTGTCTCATCAATGCCATCGGCCAGGGCTCCAAGAGAAAAGGAAAGTAGAACAGCTGCAGT  
 ACAATCTGGAGCTGGCCTTTCATCATCATCTCTGCAAGACTCATCGCAAAGCATCCTGGCAAAGCTGCC  
 ACCCAAGGGGAAGCTTCGGAGCCTGTGTAGCCAGCATGTGAAAGGCTGCAGATCTCCAGCACCTCCAC  
 CCCATCGTGGTCCAAGCCGCTTCCCTCCACTCTACAAGGAGCTTTCAGCACTGAAACCGAGTCACCTG  
 TGGGGCTGTCCAAG

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC206541 protein sequence  
 Red=Cloning site Green=Tags(s)

MDRAPQRQHRASRELLAAKKTHTSQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQRCAAYSCTRQ  
 QNCPIDRTSRNRCQHRLQKCLALGMSRDAVKFGRMSKKQRDSLHAEVQKQLQQRQQQQEPVVKTPPAG  
 AQGADTLTYTLGLPDGQLPLGSSPDLPEASACPPGLLKASGSGPSYSNNLAKAGLNGASCHLEYSPEK  
 AEGRESFYSTGSQTPDRCGLRFEHRHPGLGELGQGPDSYGSFSRSTPEAPYASLIEHLVQSVCKS  
 YRETCQLRLEDLLRQRSNIFSREEVTGYQRKSMWEMWERCAHHLTEAIQYVVEFAKRLSGFMELCQNDQI  
 VLLKAGAMEVVLVRMCRAYNADNRTVFFEGKYGMELFRALGCSELISSIFDFSHLSALHFSEDEIALY  
 TALVLI NAHRPGLQEKRKVEQLQYNLELAFHHHLCKTHRQSILAKLPPKGLRSLCSQHVERLQIFQHLH  
 PIVVQAAFPPLYKELFSTETESPVGLSK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

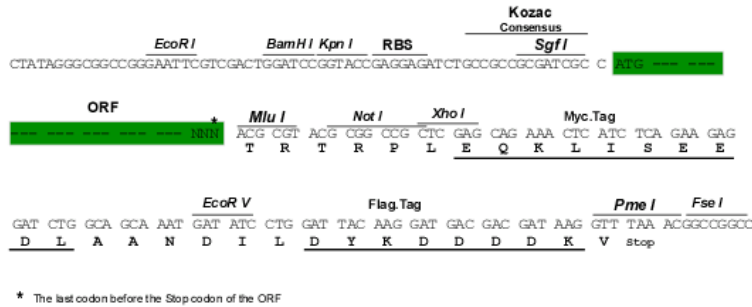
[https://cdn.origene.com/chromatograms/mk6017\\_f07.zip](https://cdn.origene.com/chromatograms/mk6017_f07.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:


**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_005060.4](#)
**RefSeq Size:** 3084 bp

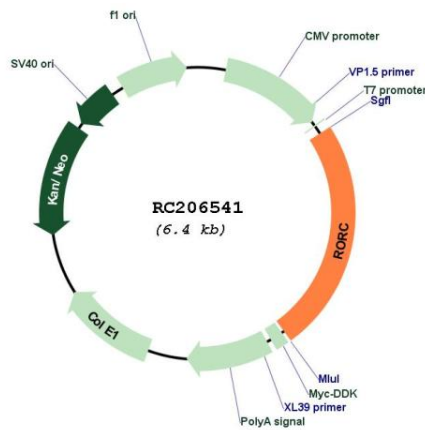
**RefSeq ORF:** 1557 bp

**Locus ID:** 6097

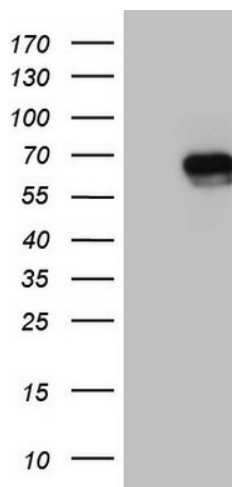
**UniProt ID:** [P51449](#)  
**Cytogenetics:** 1q21.3  
**Protein Families:** Druggable Genome, Transcription Factors  
**MW:** 58.2 kDa

**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]

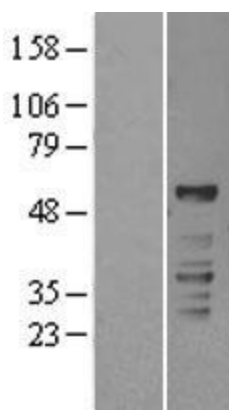
### Product images:



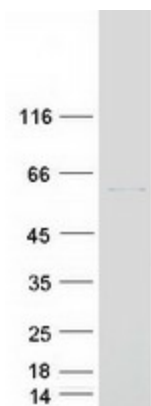
Circular map for RC206541



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RORC (Cat# RC206541, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RORC (Cat# [TA809572])(1:2000). Positive lysates [LY401568] (100ug) and [LC401568] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401568]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206541 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RORC protein (Cat# [TP306541]). The protein was produced from HEK293T cells transfected with RORC cDNA clone (Cat# RC206541) using MegaTran 2.0 (Cat# [TT210002]).