

Product datasheet for **SC300207**

ROR gamma (RORC) (NM_001001523) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROR gamma (RORC) (NM_001001523) Human Untagged Clone
Tag:	Tag Free
Symbol:	ROR gamma
Synonyms:	IMD42; NR1F3; RORG; RZR-GAMMA; RZRG; TOR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001001523 edited

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GTCATGAGAACACAAATTGAAGTGATCCCTTGCAAAATCTGTGGGGACAAGTCGTCTGGG
ATCCAACACGCGGGTTATCACCTGTGAGGGGTGCAAGGGCTTCTCCGCCGGAGCCAGCGC
TGTAACCGCGGCCTACTCCTGCACCCGTGACGAGAACTGCCCATCGACCCGACCAGCCGA
AACCGATGCCAGCACTGCCGCCTGCAGAAATGCCTGGCGCTGGGCATGTCCCAGATGCT
GTCAAGTTCGGCCGATGTCCAAGAAGCAGAGGGACAGCCTGCATGCAGAAGTGCAGAAA
CAGCTGCAGCAGCGGCAACAGCAGCAACAGGAACCAAGTGGTCAAGACCCCTCCAGCAGGG
GCCAAGGAGCAGATACCCTCACCTACACCTTGGGGCTCCAGACGGGCAGCTGCCCTG
GGCTCCTCGCCTGACCTGCCTGAGGCTTCTGCCTGTCCCCTGGCCTCCTGAAAGCCTCA
GGCTCTGGGCCCTCATATTCCAACAACCTGGCCAAGGCAGGGCTCAATGGGGCTCATGC
CACCTTGAATACAGCCCTGAGCGGGCAAGGCTGAGGGCAGAGAGGCTTCTATAGCACA
GGCAGCCAGCTGACCCCTGACCGATGTGGACTTCGTTTTGAGGAACACAGGCATCCTGGG
CTTGGGGAAGTGGACAGGGCCAGACAGCTACGGCAGCCCCAGTTTCCGCAGCACCCG
GAGGCACCCTATGCCTCCCTGACAGAGATAGAGCACTGGTGCAGAGCGTCTGCAAGTCC
TACAGGGAGACATGCCAGCTGCGGCTGGAGGACCTGCTGCGGCAGCGCTCCAACATCTTC
TCCCGGGAGGAAGTGACTGGCTACCAGAGGAAGTCCATGTGGGAGATGTGGGAACGGTGT
GCCACCACCTCACCGAGGCCATTCAAGTACGTGGTGGAGTTCGCCAAGAGGCTCTCAGGC
TTTATGGAGCTCTGCCAGAAATGACCAGATTGTGCTTCTCAAAGCAGGAGCAATGGAAGTG
GTGCTGGTTAGGATGTGCCGGGCCTACAATGCTGACAACCGCACGGTCTTTTTTGAAGGC
AAATACGGTGGCATGGAGCTGTTCCGAGCCTTGGGCTGCAGCGAGCTCATCAGCTCCATC
TTTGACTTCTCCCACTCCCTAAGTGCCTTGCACCTTTCCGAGGATGAGATTGCCCTCTAC
ACAGCCCTTGTTCATCAATGCCATCGGCCAGGGCTCCAAGAGAAAAGGAAAGTAGAA
CAGCTGCAGTACAATCTGGAGCTGGCCTTTCATCATCATCTCTGCAAGACTCATCGCCAA
AGCATCCTGGCAAAGCTGCCACCCAAGGGAAGCTTCGGAGCCTGTGTAGCCAGCATGTG
GAAAGGCTGCAGATCTTCCAGCCTCCACCCATCGTGGTCCAAGCCGCTTTCCTCCA
CTCTACAAGGAGCTCTTCCAGCACTGAAACCGAGTACCTGTGGGGCTGTCCAAGTACCT
GGAAGAGGGACTCCTTGCTCTCCCTATGGCCTGCTGGCCACCTCCCTGGACCCCGTTC
CACCTCACCTTTTCTTTCCCATGAACCCTGGAGGGTGGTCCCACCAGCTCTTTGGA
AGTGAGCAGATGCTGCGGCTGGCTTTCTGTCAGCAGGCCGGCCTGGCAGTGGGACAATCG
CCAGAGGGTGGGCTGGCAGAACACCATCTCCAGCCTCAGCTTTGACCTGTCTCATTTC
CATATTCCTTACACCCAGCTTCTGGAAGGCATGGGGTGGCTGGGATTTAAGACTTCTG
GGGACCAAGACATCCTCAAGAAAACAGGGGCATCCAGGGCTCCCTGGATGAATAGAATG
CAATTCATTGAGAAGCTCAGAAGCTAAGAATAAGCCTTTGAAATACCTCATTGCATTTCC
CTTTGGGCTTCGGCTTGGGGAGATGGATCAAGCTCAGAGACTGGCAGTGAGAGCCAGAA
GGACCTGTATAAAATGAATCTGGAGCTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
  
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001001523 unedited TTGTCCAGGTTAAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGG TCATGAGAACACAAAATTGAAGTGATCCCTTGCAAAATCTGTGGGGACAAGTCGTCTGGGA TCCACTACGGGGTTATCACCTGTGAGGGGTGCAAGGGCTTCTCCGCCGGAGCCAGCGCT GTAACGCGGCCTACTCCTGCACCCGTGAGCAGAAGTGCACCCATCGACCGCACCAGCCGAA ACCGATGCCAGCACTGCCGCCTGCAGAAATGCCTGGCGCTGGGCATGTCCCGAGATGCTG TCAAGTTCGGCCGCATGTCCAAGAAGCAGAGGGACAGCCTGCATGCAGAAGTGCAGAAAC AGCTGCAGCAGCGCAACAGCAGCAACAGGAACCAAGTGGTCAAGACCCCTCCAGCAGGGG CCCAAGGAGCAGATACCCTCACCTACACCTTGGGGCTCCAGACGGGCAGCTGCCCTGG GCTCCTCGCCTGACCCTGCCTGAGCTTCTGCCTGTCCCTGGCCTCCTGAAAGCCTCAN GCTCTGGGCCCTCATATTCCAACACTTGGCCAAGGCAGGGCTCAATGGGGCCTCATGCCA CCTTGAATACAGCCCTGAGCGGNGCAAGGCTGAGGGCAGAGAGCTTCTATAGCACAGG CAGCCAGCTGACCCTGACCGATGTGGACTTCGTTTTGAGGAAACACAGCATCCTGGGCT TGGGAAACTGGACAAGCCAANCAGCTACGGCAGCCCCAGTTTTCGCAGCACACGGGAA GCACCCTATGCTCCCTGACCGAAATAAAGCACCTGGTGCAAAGCGTCTGCAAGTCTACG GGGAAACATGCCAACCTGCGCTGGAGAAGTCTTGGGAAACCTTCCACATTTTTCC</p>
Restriction Sites:	Please inquire
ACCN:	NM_001001523
Insert Size:	2100 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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_001001523.1](#), [NP_001001523.1](#)

RefSeq Size: 3054 bp

RefSeq ORF: 1494 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]
Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a distinct N-terminus compared to isoform a.