

Product datasheet for **SC109741**

ROR alpha (RORA) (NM_002943) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROR alpha (RORA) (NM_002943) Human Untagged Clone
Tag:	Tag Free
Symbol:	ROR alpha
Synonyms:	IDDECA; NR1F1; ROR1; ROR2; ROR3; RZR-ALPHA; RZRA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_002943, the custom clone sequence may differ by one or more nucleotides

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ATGAATGAGGGGGCCCCAGGAGACAGTGACTTAGAGACTGAGGCAAGAGTGCCGTGGTCAATCATGGGTC
ATTGTCTTGAAGTGGACAGGCCAGAATGTCTGCCACACCCACACCTGCAGGTGAAGGAGCCAGAAGCTC
TTCAACCTGTAGCTCCCTGAGCAGGCTGTTCTGGTCTCAACTTGAGCACATAAACTGGGATGGAGCCACA
GCCAAGAAGCTTTAATTAATTAAGGGAGTCTTCTCTTTCTGCTCCCTGCATTGAGAAAAGCTCAAATTG
AAATTATTCCATGCAAGATCTGTGGAGACAAATCATCAGGAATCCATTATGGTGTATTACATGTGAAGG
CTGCAAGGGCTTTTTAGGAGAAGTCAGCAAAGCAATGCCACCTACTCTGTCTCGTCAGAAGAAGTGT
TTGATTGATCGAACCAGTAGAAACCGCTGCCAACACTGTCGATTACAGAAATGCCTTGCCGTAGGGATGT
CTCGAGATGCTGTAAAATTTGGCCGAATGTCAAAAAGCAGAGAGACAGCTTGTATGCAGAAGTACAGAA
ACACCGGATGCAGCAGCAGCAGCGCCACCAGCAGCAGCCTGGAGAGGCTGAGCCGCTGACGCCACC
TACAACATCTCGCCAACGGGCTGACGGAATTCACGACGACCTCAGTAACACTACATTGACGGGCACACCC
CTGAGGGGAGTAAGGCAGACTCCGCCGTGAGCAGCTTCTACCTGGACATACAGCCTTCCCAGACCAGTC
AGGTCTTGATATCAATGGAATCAAACCAGAACCAATATGTGACTACACACCAGCATCAGGCTTCTTTCCC
TACTGTTCTGTTACCAACGGCGAGACTTCCCAACTGTGTCCATGGCAGAAATAGAACACCTTGACAGA
ATATATCTAAATCGCATCTGAAACCTGCCAATACTTGAGAGAAGAGCTCCAGCAGATAACGTGGCAGAC
CTTTTTACAGGAAGAAATGAGAAGTATCAAAAACAGCAGCGGGAGGTGATGTGGCAATTGTGTGCCATC
AAAATTACAGAAGCTATACAGTATGTGGTGGAGTTTGCCAAACGCATTGATGGATTTATGGAAGTGTGC
AAAATGATCAAATTTGCTTCTAAAAGCAGGTTCTCTAGAGGTGGTGTATCAGAATGTGCCGTGCCTT
TGACTCTCAGAACACACCGTACTTTGATGGGAAGTATGCCAGCCCCGACGTCTCAAATCCTTAGGT
TGTGAAGACTTTATTAGCTTTGTGTTGAATTTGAAAGAGTTTATGTTCTATGCACCTGACTGAAGATG
AAATTGCATTATTTCTGCAATTTGTAAGTGTACTGATGTACAGAGATCGCTCATGGCTGCAAGAAAAGTAAAAAT
TGAAAACTGCAACAGAAAATTCAGTACTCTTCAACACGTCCTACAGAAGAATCACCGAGAAGATGGA
ATACTAACAAAGTAAATATGCAAGGTGTCTACATTAAGAGCCTTATGTGGACGACATACAGAAAAGCTAA
TGGCATTAAAGCAATATACCCAGACATTGTGCGACTTCATTTTCTCCATTATACAAGGAGTTGTTTAC
TTCAGAATTTGAGCCAGCAATGCAAAATGATGGGTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002943 unedited

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NGTTAGATTTGTAACGACTTATATAGGCGGCCCGCCAGTCGTGAGGATATCTGCAGAATT
CGCCCTTCCCAGTTTCTGGAGGCAGATGGGTAACCAGGAAAAGGCTGAATGAGGGGGCCC
CAGGAGACAGTGACTTAGAGACTGAGGCAAGAGTGCCGTGGTCAATCATGGGTCATTGTC
TTCGAAGTGGACAGGCCAGAATGTCTGCCACACCCACACCTGCAGGTGAAGGAGCCAGAA
GGTTCTGGAGCCAGTGAATTTGTTGGAAGAAAATATTGGCCACTAGCTTTCTTAGAA
CATTAATAGAGTGGATGACAATGAAGACAACAAAGAGCATTGAAAGGCTATCATCCACCA
CAACATAGGAGCATCTCCACGCCCACTCAAATTTGAAATTAAGTCCATGCAAGATCTGTG
GAGACAAATCATCAGGAATCCATTATGGTGTATTACATGTGAAGGCTGCAAGGGCTTTT
TCAGGAGAAGTCAGCAAAGCAATGCCACCTACTCTGTCTCGTCAGAAGAAGTGTGTTGA
TTGATCGAACCAGTAGAAACCGCTGCCAACACTGTCGATTACAGAAATGCCTTGCCGTAN
GGATGTCTCGAGATGCTGTAAAATTTGGCCGAATGTCAAAAAGCAGAGAGACAGCTTGT
ATGCAGAAGTACAGAAACACCGGATGCAGCAGCAGCAGCGCCACCACCAGCAGCAGCCTG
GAGAGGCTGAGCCGCTGACGCCACCTACAACATCTCGCCAACGGGCTGACGGAATTC
ACGACGACCTCAGTAACACTACATTGACGGGCACACCCCTGAGGGGAGTAAGGCAGACTNCG
CCGTGAGCAGCTTCTACCTGGACATACAGNCTTACCCAGACCAGTCAGGTCTTGATATC
ATGGGATCAANCCAGACCNATATGTGACTACTCACAGCAT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002943 unedited GGGGCCATTGGNGAGGCAACTTCCAGNCCAGNAAAGCACTGGGGNAGGGTCACAGGNAT GCCACCCGGGNACTGTTCCAGGAAACAGCTATGACCCGGCCGCAATCTAGAGTCGACAAG CTTGATATCGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGC CCTTTGTGCAGGGCCATATAAAGTGTCTCGTTAATTTTTTTGTTGTTTTTCATGTTTG TGCTTCAGACATTCTAGAAGTGCTTAGGTGATAACATTTACCCATCAATTTGCATTGCTG GCTCAAATTCGAAGTGAACAACCTCCTTGATAATGGAGGAAAAATGAAGTCGCACAATGT CTGGGTATATTGCTTTAAATGCCATTAGCTTTTCTGTATGTCGTCACATAAGGCTCTTA ATGTAGACACCTCGCATATTAACTTTGTAGTATTCCATCTTCTCGGTGATTCTTCTGTA GGACGTGTTGAAGAGCTAGCTGAATTTTCTGTTGCAGTTTTTCAATTTTACCTTTTCTT GCAGCCATGAGCGATCTGCTGACATCAGTACAAATGCAGAAAATAATGCAATTTTCATCTT CAGTCAGGTGCATAGAACATAAACTCTTCCAAATTCAAACACAAAGCTAATAAAGTCTT CACAACTAAGGATTTGAAGACGTCGGGGCTGGCATACTCCCATCAAAGTACACGNGTG TTGTTCTGAGAGTCAAAGGCACGGCACATTCTGATAAACACCACCTCTAGAGAACCTGCT CTTAGAGCACAATTTGATCATTTTGACACAGTTCATAAATNNCATCAATGCGTTTGGCA AACTCCACACATACTGTATAGCTTCTGTAATTTTATGGACACACAATNGNCACATCACCT ACCGCTGGCTGG
Restriction Sites:	Please inquire
ACCN:	NM_002943
Insert Size:	2000 bp
OTI Disclaimer:	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.
	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
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_002943.2 , NP_002934.1
RefSeq Size:	10974 bp

RefSeq ORF:	10974 bp
Locus ID:	6095
UniProt ID:	P35398
Cytogenetics:	15q22.2
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary:	<p>The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It 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, as well as with NM23-1, the product of a tumor metastasis suppressor candidate gene. Also, it has been shown to aid in the transcriptional regulation of some genes involved in circadian rhythm. Four transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (3), also called RORalpha3, contains a different 5' sequence as compared to variant 1. As a result, variant 3 encodes isoform c, whose 91 N-terminal aa differ from the 66 N-terminal aa of isoform a encoded by variant 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>