

## Product datasheet for **RC216664**

### ROR alpha (RORA) (NM\_134260) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ROR alpha (RORA) (NM_134260) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ROR alpha
Synonyms:	IDDECA; NR1F1; ROR1; ROR2; ROR3; RZR-ALPHA; RZRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC216664 representing NM\_134260  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAATGAGGGGGCCCCAGGAGACAGTGACTTAGAGACTGAGGCAAGAGTGCCGTGGTCAATCATGGGTC  
 ATTGTCTTCGAACTGGACAGGCCAGAATGTCTGCCACACCCACACCTGCAGGTGAAGGAGCCAGAAGGGA  
 TGAACTTTTGGGATTCTCCAAATACTCCATCAGTGTATCCTGTCTTCAGGTGATGCTTTTGTCTTACT  
 GGCGTCTGTTGTTCTGGAGGCAGAATGGCAAGCCACCATATTCACAAAAGGAAGATAAGGAAGTACAAA  
 CTGGATACATGAATGCTCAAATTGAAATATTCCATGCAAGATCTGTGGAGACAAATCATCAGGAATCCA  
 TTATGGTGTCAATACATGTGAAGGCTGCAAGGGCTTTTTCAGGAGAAGTCAGCAAAGCAATGCCACCTAC  
 TCCTGCCTCGTCAGAAGAACTGTTTGATTGATCGAACCAAGTAAACCCGCTGCCAACACTGTCGATTAC  
 AGAAATGCCTTGGCGTAGGGATGTCTCGAGATGCTGTAATAATTTGGCCGAATGTCAAAAAAGCAGAGAGA  
 CAGCTTGTATGCAGAAGTACAGAAACACCGGATGCAGCAGCAGCAGCGCACCACCAGCAGCAGCTGGA  
 GAGGCTGAGCCGCTGACGCCACCTACAACATCTCGGCCAACGGGCTGACGGAATTCACGACGACCTCA  
 GTAACACATTGACGGTCACACCCTGAGGGGATTAAGGCAGACTCCGCCGTGACGAGCTTCTACCTGGA  
 CATAACAGCCTTCCCAGACCAGTCAGGTCTTGATCAATGGAATCAAACCAGAACCAATATGTGACTAC  
 ACACCAGCATCAGGCTTCTTCCCTACTGTTTCCCTACCAACGGCGAGACTTCCCCTACTGTGTCATGG  
 CAGAATTAGAACACCTTGCACAGAATATCTAAATCGCATCTGGAAACCTGCCAATACTTGAGAGAAGA  
 GCTCCAGCAGATAACGTGGCAGACCTTTTTACAGGAAGAAATTGAGAATATCAAAACAAGCAGCGGGAG  
 GTGATGTGGCAATTGTGTGCCATCAAAATACAGAAGCTATACAGTATGTGGTGGAGTTTGCCAAACGCA  
 TTGATGGATTTATGGAACGTGTCAAAATGATCAAAATTTGCTTCTAAAAGCAGGTTCTCTAGAGGTGGT  
 GTTTATCAGAATGTGCCGTGCCCTTTGACTCTCAGAACAACACCGTGTACTTTGATGGGAAGTATGCCAGC  
 CCCGACGTCTTCAAATCCTTAGGTTGTGAAGACTTTATTAGCTTTGTGTTTGAATTTGAAAAGATTTAT  
 GTTCTATGCACCTGACTGAAGATGAAATTCATTATTTTCTGCATTTGACTGATGTCAGCAGATCGCTC  
 ATGGCTGCAAGAAAAGGTAAAAATGAAAACTGCAACAGAAAATTCAGCTAGCTCTTCAACACGTCCTA  
 CAGAAGAATCACCGAGAAGATGGAATACTAACAAAGTTAATATGCGAGGTGTCTACATTAAGAGCCTTAT  
 GTGGACGACATACAGAAAAGCTAATGGCATTAAAGCAATATACCCAGACATTGTGCGACTTCATTTTCC  
 TCCATTATACAAGGAGTTGTTCACTTCAGAATTTAGCCAGCAATGCAAATGATGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC216664 representing NM\_134260  
 Red=Cloning site Green=Tags(s)

MNEGAPGDSLEEARVPWSIMGHCLRTGQARMSATPTPAGEARRDELFGILQILHQCILSSGDAFVLT  
 GVCCSWRQNGKPPYSQKEDKEVQTGYMNAQIEIIPCKICGDKSSGIHYGVITCEGCKGFFRRSQSNATY  
 SCPRQKNCLIDRTSRNRCQHRLQKCLAVGMSRDAVKFGRMSKKQRDSL YAEVQKHRMQQQRDHQQQPG  
 EAEPLTPTYNISANGL TELHDDL SNYIDGHTPEGIKADSAVSSFYLDIQSPDQSGLDINGIKPEPICDY  
 TPASGFFPYCSFTNGETSPTVSMAELEHLAQNISKSHLETCQYLREELQQITWQTFLQEEIENYQNKQRE  
 VMWQLCAIKITEAIQYVVEFAKRIDGMELCQNDQIVLLKAGSLEVVFIRMCRAFDSQNNTVYFDGKYAS  
 PDVFKSLGCEDFISFVFEFGKSLCSMHL TEDEIALFSAFVLMADRSLQEKVKIEKLQKIQALQHV  
 QKNHREDGILTKLICEVSTLRALCGRHTEKLMFAFKAIYPDIVRLHFPPL YKELFTSEFEPAMQIDG

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6708\\_b09.zip](https://cdn.origene.com/chromatograms/mk6708_b09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_134260

**ORF Size:** 1668 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\\_134260.2](#)

**RefSeq Size:** 2020 bp

**RefSeq ORF:** 1671 bp

**Locus ID:** 6095

**UniProt ID:** [P35398](#)

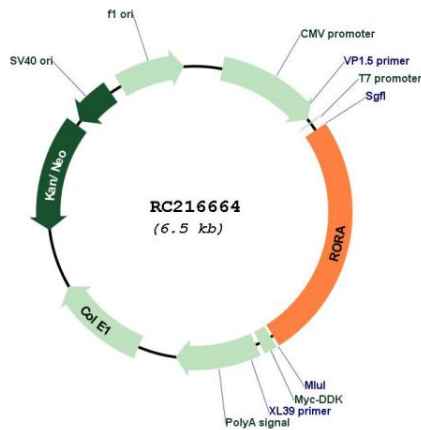
**Cytogenetics:** 15q22.2

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

**MW:** 62.9 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for RC216664