

Product datasheet for **MR230057**

Rora (NM_001289916) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rora (NM_001289916) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rora
Synonyms:	9530021D13Rik; nmf267; Nr1f1; ROR1; ROR2; ROR3; sg; staggerer; tmgc26
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230057 representing NM_001289916
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATATTTTGTGATCGCAGCGATGAAAGCTCAAATTGAAATTATCCATGCAAGATCTGTGGAGACAAAT
 CGTCAGGAATCCATTATGGTGTCTTACGTGTGAAGGCTGCAAGGCTTTTTTCAGGAGAAGTCAGCAGAG
 CAATGCCACCTACTCCTGTCTCGTCAGAGAAGTGTGGATTGATCGGACCAGCAGAAACCGCTGCCAG
 CATTGTGGCTGCAGAAATGCCTGGCCGTGGGATGTCTCGAGATGCTGTCAAGTTTGGTCGGATGTCCA
 AGAAGCAGAGAGACAGCTTGTACCCGAGGTGCAGAAGCACCGGATGCAGCAGCAGCAGCGAGACCACCA
 GCAGCAGCTGGGGAGCGGAGCCGCTGACGCCACCTACAACATCTCAGCCAATGGGCTGACGGAAGT
 CATGATGACCTCAGCACCTATATGGATGGGCACACCCCGAGGCGAGCAAGGCGGACTCAGCCGTCAGCA
 GCTTCTACCTGGACATCCAGCCCTCCCGAGACCAGTCGGGATTGGACATCAATGGGATCAAACCCGAACC
 CATATGTGACTACACACCAGCATCTGGCTTCTTCCCCTACTGTTCTTCCCAACGGAGAGACTTCCCCA
 ACCGTGTCCATGGCAGAACTAGAACACCTTGCCAGAACATATCCAAATCCCACCTGGAAACCTGCCAGT
 ACTTGGCGGAAGAGCTCCAGCAGATAACGTGGCAGACCTTCTGCAAGGAGGATGAAAACCTACAGAA
 CAAGCAGAGAGAGGTGATGTGGCAGCTGTGTGCCATCAAGATTACAGAAGCTATCCAGTATGTGGTGGAG
 TTTGCCAAACGCATTGATGGATTATGGAGCTGTGTCAAATGATCAAATTTGTGCTTCTAAAAGCAGGCT
 CGCTAGAGGTGGTGTATTATAGGATGTGCCGTGCCTTTGACTCTCAGAACACACCGTGTACTTTGACGG
 GAAGTATGCGAGCCCGATGTCTCAAGTCCCTAGGTTGTGAAGACTTCATCAGCTTTGTGTTTGAATTT
 GGAAGAGTTTGTGTTCTATGCACCTGACCGAAGACGAAATCGCGTTATTTTCTGCATTCGACTGATGT
 CAGCGGATCGCTCGTGGCTTACGAAAAGTAAAAATAGAAAAGCTGCAACAGAAAATTCAGTGGCCCT
 TCAGCACGTCTACAGAAGAACCACCGAGAAGATGGAATTCTAACCAAGCTAATATGCAAGGTGTCTACG
 TTAAGAGCCCTATGTGGACGACATACGAAAAGCTAATGGCATTTAAAGCAATATACCCAGACATTGTGC
 GACTCCATTTCTCCATTATACAAGGAATTGTTCACTTCAGAATTTGAGCCAGCCATGCAATCGATGG
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230057 representing NM_001289916
 Red=Cloning site Green=Tags(s)

MYFVIAAMKAQIEIIPCKICGDKSSGIHYGVITCEGCKGFFRRSQSNATYSCPRQKNCLIDRTSRNRCQ
 HCRLQKCLAVGMSRDAVKFGRMSKKQRDSLAEVQKHRMQQQRDHQQQPGEAEPLTPTYNISANGLTEL
 HDDLSTYMDGHTPEGSKADSAVSSFYLDIQSPDQSGLDINGIKPEPICDYTPASGFFPYCSFTNGETSP
 TVSMAELEHLAQNIKSHLETQYLREELQQITWQTFLEEIENYQNKQREVMWQLCAIKITEAIQYVVE
 FAKRIDGFMELCQNDQIVLLKAGSLEVVFIRMCRAFDSQNNVTYFDGKYASPDVFKSLGCEDFISFVFEF
 GKSLCSMHLTEDEIALFSFVFLMSADRSWLQEKVKIEKLQKIQQLALQHVLRQKNHREDGILTKLICKVST
 LRALCGRHTEKLMFAKAIYPDIVRLHFPLYKELFTSEFEPAMQIDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

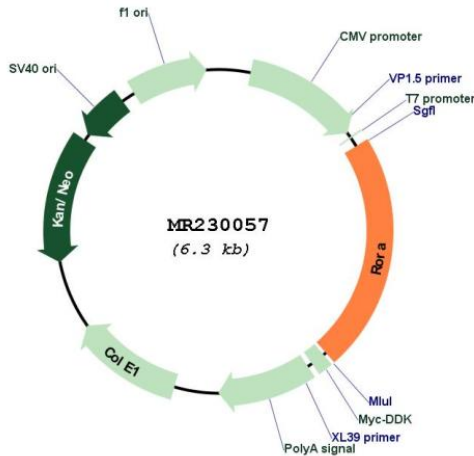
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001289916

ORF Size:

1401 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_001289916.1](#), [NP_001276845.1](#)

RefSeq Size: 10869 bp

RefSeq ORF: 1404 bp

Locus ID: 19883

UniProt ID: [P51448](#)

Cytogenetics: 9 37.45 cM

MW: 53.9 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. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]