

Product datasheet for **MG225771**

Rorb (NM_001043354) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rorb (NM_001043354) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rorb
Synonyms:	hstp; Nr1f2; Rorbeta; RZR-beta; RZRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225771 representing NM_001043354
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGAGCACAAATTGAAGTGATACCATGCAAAATTTGTGGCGATAAATCCTCCGGATCCACTACGGAG
 TCATCACGTGTGAAGGCTGCAAGGATTCTTCAGGAGGAGCCAGCAGAACAATGCCTCTTACTCCTGCC
 AAGGCAGAGAAACTGTTTAATTGACAGAACCAACAGGAACCGTTGCCAACTGCCGCTGCAGAAGTGT
 CTTGCCCTAGGAATGTCAAGAGATGCTGTAAAGTTCGGGAGGATGTCCAAGAAGCAGCGGACAGCCTGT
 ATGCTGAGGTGCAGAAGCATCAGCAAAGGCTGCAGGAGCAGCGGCAGCAGAGTGGGGAGGCGGAGGC
 CCTCGCCAGGGTGTACAGCAGCAGCATTAGCAATGGCCTCAGCAACCTGAACACCGAGACCGCGGCACA
 TACGCCAACGGGCAGTCATTGACCTGCCAAGTCCGAAGTTATTACAGCATAGATTCCGGTCAGCCGT
 CTCCCGATCAGTCAGGACTGGACATGACTGGGATCAAACAGATAAAGCAAGAACCATCTATGACCTCAC
 ATCTGTACCCAATTGTTTACCTATAGCTCTTTCAACAACGGGCAGTTAGCTCCCGGATAACAATGTCT
 GAGATCGATCGAATTGCACAGAACATCATTAAAGTCCCATTGGAGACATGTCAGTACACCATGGAAGAAC
 TCCATCAGCTGGCATGGCAGACCCACACCTACGAGGAAATCAAGGCGTATCAAAGCAAGTCCAGGGAGGC
 TCTGTGGCAGCAGTGTGCCATCCAGATACCCATGCTATCCAGTACGTGGTGGAGTTCGCCAAGCGGATA
 ACAGGCTTCATGGAGCTGTGTCAGAACGATCAGATCTTACTTCTGAAGTCAGGTTGCTTGGAAAGTGGTTT
 TAGTGAGAATGTGTCGTGCCCTTCAACCCATTAACAACACTGTTCTGTTTGAAGGAAAATATGGAGGAAT
 GCAATGTTCAAAGCCTTAGGTTTCGGATGACCTAGTGAATGAAGCATTGACTTTGCCAAGAATCTGTGT
 TCCTTGCAGCTGACTGAGGAAGAGATTGCTCTGTTCTCCTCTGCTGTTCTGATATCCCCAGACCGAGCCT
 GGCTGATCGAACCAAGAAAAGTCCAGAAGCTTCAGGAAAAGATTTATTTTGCAGTCAACATGTGATTCA
 GAAGAACCACCTGGATGATGAGACCCTGGCAAGTTAATAGCCAAGATACCAACTATCACGCGAGTCTGC
 AACTTGATGGGAGAAGCTGCAGGTATTTAAGCAGTCTCATCCAGACATAGTGAATACACTGTTTCCTC
 CATTGTACAAGGAGCTCTTAATCCTGACTGTGCTGCGGTCTGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225771 representing NM_001043354
 Red=Cloning site Green=Tags(s)

MRAQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQQNNASYSQPRQRNCLIDRTNRRNCQHRLQKC
 LALGMSRDAVKFGRMSKKQRDSL YAEVQKHQRLQEQRQQSGEAEALARYVSSSISNGLSNLNTETGGT
 YANGHVIDLPKSEGYYSIDSGQSPDQSGLDMTGIKQIKQEPIDLTSPNLFYSSFNNGQLAPGITMS
 EIDRIAQNIKSHLETQYTMEEHLQLAWQHTHYEEIKAYQSKSREALWQCAIQITHAIQYVVEFAKRI
 TGFMELCQNDQILLKSGCLEVVLVRCRAFNPLNNTVLFEGKYGGMQMFKALGSDDLVNEAFDFAKNLC
 SLQLTEEEIALFSSAVLISPDRAWLIEPRKVQKLQEKIYFALQHVIQKNHLDDDELAKLIAKIPTITAVC
 NLHGEKLQVFKQSHPDIVNTLFPPLYKELFNPDCAAVCK

TRTRPLE - GFP Tag - V

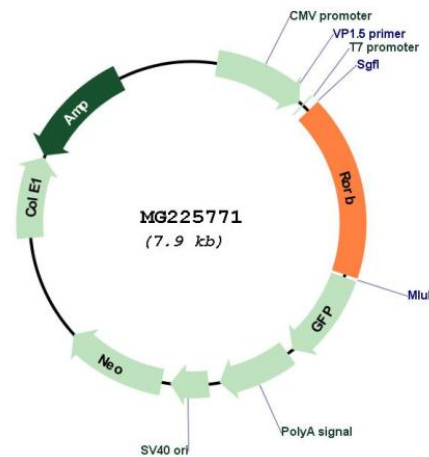
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001043354

ORF Size: 1377 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:	<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:	<u>NM_001043354.2</u> , <u>NP_001036819.1</u>
RefSeq Size:	3330 bp
RefSeq ORF:	1380 bp
Locus ID:	225998
UniProt ID:	<u>Q8R1B8</u>
Cytogenetics:	19 B
Gene Summary:	The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It is a DNA-binding protein that 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, and to help regulate the expression of some genes involved in circadian rhythm. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]