

Product datasheet for MR231891

Rai1 (NM_009021) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rai1 (NM_009021) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rai1
Synonyms:	Gt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231891 representing NM_009021 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>MR231891 representing NM_009021

Red=Cloning site Green=Tags(s)

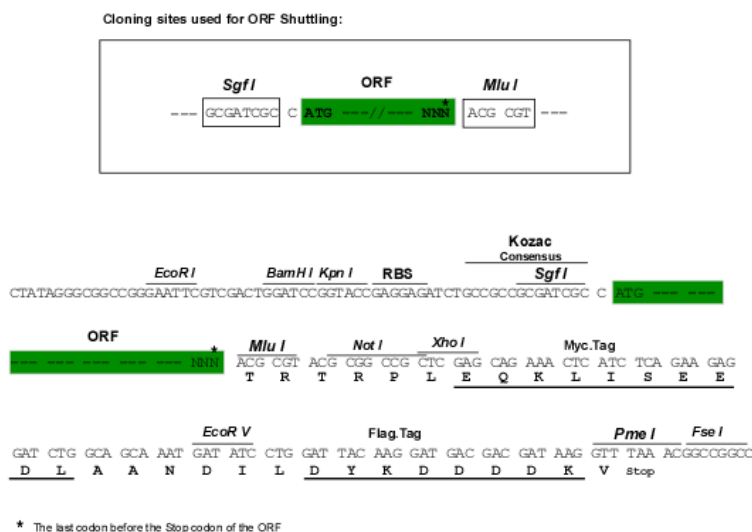
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Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009021

ORF Size: 5667 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.

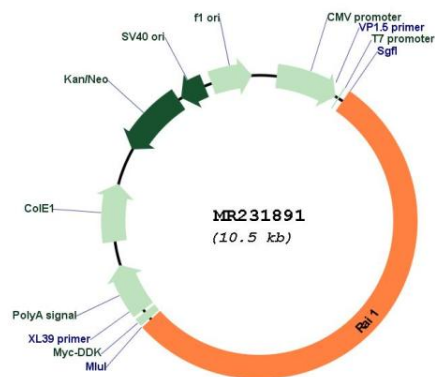
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_009021.2, NP_033047.2</u>
RefSeq Size:	7348 bp
RefSeq ORF:	5670 bp
Locus ID:	19377
UniProt ID:	<u>Q61818</u>
Cytogenetics:	11 B1.3-B2
MW:	201.6 kDa
Gene Summary:	Transcriptional regulator of the circadian clock components: CLOCK, ARNTL/BMAL1, ARNTL2/BMAL2, PER1/3, CRY1/2, NR1D1/2 and RORA/C. Positively regulates the transcriptional activity of CLOCK a core component of the circadian clock. Regulates transcription through chromatin remodeling by interacting with other proteins in chromatin as well as proteins in the basic transcriptional machinery. May be important for embryonic and postnatal development. May be involved in neuronal differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231891