

## Product datasheet for MR228131

### Rnase4 (NM\_021472) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnase4 (NM_021472) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnase4
Synonyms:	C730049F20Rik; Rab1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228131 representing NM_021472 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGATCTACAGAGGACTCAGTCCTTGCTTCTGCTCTTGGTGTGACCCCTGCTGGGGTTAGGGCTTG  
TACAGCCCTCCTATGGCCAGGATCGAATGTACCAACGGTTCCTTCGACAGCATGTGGACCCTCAGGCGAC  
AGGTGGCAATGACAACACTGCAACGTTATGATGCAGAGACGGAAGATGACTTCTGTCCAGTGCAAACGC  
TTCAACACCTTCATCCACGAAGACATCTGGAACATTCGTGGCATCTGTAGTACCACCAATATCCTGTGCA  
AGAACGGCCAGATGAACTGTACGAAGGTGTAGTGAAGGTCACGGACTGCAGAGAGACAGGGAACCCAA  
GGCCCCCAACTGTAGATACAGGGCAAGAACCAGCACTAGGCGAGTTGTCATTGCCTGTGAGGGTGACCCA  
GAGGTCCCACTGCACTTTGACAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR228131 representing NM_021472 Red=Cloning site Green=Tags(s)
-------------------	--

MMDLQRTQSLLLLLVL TLLGLGLVQPSYGQDRMYQRFLRQHVDPAATGGNDNYCNVMMQRRKMTSVQCKR  
FNTFIHEDIWNIRGICSTTNILCKNGQMNCHGVVKTDCRETGNSKAPNCRYRARTSTRRVVIACEGDP  
EVPVHFDR

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
--------------------	-----------



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_021472

**ORF Size:** 444 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\\_021472.1](#)

**RefSeq Size:** 1540 bp

**RefSeq ORF:** 447 bp

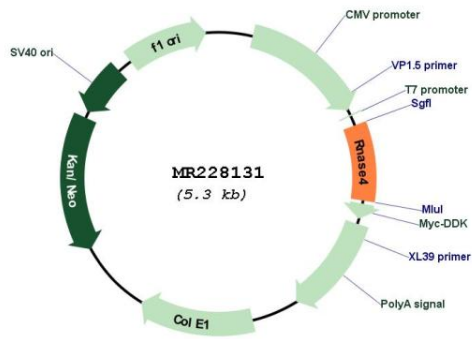
**Locus ID:** 58809

**Cytogenetics:** 14 C1

**MW:** 17 kDa

**Gene Summary:** This gene encodes a member of the pancreatic ribonuclease A superfamily. The encoded enzyme is secreted and has unique uridine specificity. This gene resides in a cluster of highly related genes. It shares dual promoters and 5' exons with the angiogenin, ribonuclease, RNase A family, 5 gene. Each gene splices to a unique downstream exon that contains its complete coding region. Two alternatively spliced variants, with different 5' exons but the same coding exon, have been identified. [provided by RefSeq, Jun 2009]

**Product images:**



Circular map for MR228131