

Product datasheet for **MR204190**

Rnaseh2a (NM_027187) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnaseh2a (NM_027187) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnaseh2a
Synonyms:	2400006P09Rik; RNASEHI; RNHIA; RNHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204190 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTCAGCGAGCTGGAGAGGGACAATACGGGTCGTTGTCGTCTGAGTTCTCCTGTACCTGCTGTGT
GTCTCAAGGAGCCGTGCGTTCTGGGCGTGGATGAAGCGGGCCGAGGCCCTGTGCTTGGTCCCATGGTCTA
CGCCATCTGTTACTGCCCCCTGTCTCGTTGGCAGATCTGGAGGCTCTGAAAGTGGCAGACTCTAAGACC
TTGACAGAGAACGAGCGGGAGAGGCTCTTTCGAAAATGGAGGAGGATGGAGACTTTGTGGGTTGGGCTT
TGGACGTCTGTCTCAAACCTGATCTCTACCAGCATGCTTGGGCGAGTCAAGTACAACCTCAACTCCCT
GTCACACGATACAGCAGCGGGGCTGATACAGTACGCACTGGACCAGAATGTGAATGTCACTCAGGATTT
GTGGACACTGTAGGAATGCCAGAGACATACCAGGCTCGATTACAACAGCACTTTCCCGGGATAGAGGTGA
CAGTCAAGGCCAAAGCTGACTCCCTGTTCCCTGTGGTCAGTGTGCCAGCATCTTTGCCAAGGTGGCCCG
AGACAAGGCTGTGAAGAACTGGCAGTTTGTGGAAAATTTACAGGATCTGGACTCCGATTATGGCTCAGGC
TATCCAATGATCCAAGACCAAGCCCTGGCTGAGGAAACATGTGGACCTGTGTTTGGCTTCCCCCAGT
TTGTACGGTTCAGTTGGAGCACAGCCAGGCCATCCTGGAGAAGGAGGCAGAAGATGTCAATTTGGGAGGA
CTCAGAAGCTGAGGAGGATCCTGAAAGACCGGGAAAAATCACCTCTACTTCAGCCAGGGCCCGCAGACC
TGCCGCCCTCAGGCCCCACAGATACTTCCAGGAGCGAGGCTGGAGGCAGCCAGCAGCCTC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204190 protein sequence
Red=Cloning site Green=Tags(s)

```
MDLSELERDNTGRCRLSSPVPVAVCLKEPCVLGVDEAGRGPVLGPMVYAICYCPLSRLADLEALKVADSKT
LTENERERLFAKMEEDGDFVGVWALDVLSPNLISTSMGRVKYNLNSLSDHTAAGLIQYALDQNVNVTQVF
VDTVGMPEYQARLQQHFPGIEVTVKAKADSLFPVVSAAIFAKVARDKAVKNWQFVENLQDLSDSYGSG
YPNDPKTKAWLRKHVDPVFGFPQFVRFVSWSTAQAILEKEAEDVIWEDSEAEEDPERPGKITSYFSQGPQT
CRPQAPHRYFQERGLEAASSL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027187

ORF Size: 906 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_027187.1](#)

RefSeq Size: 2044 bp

RefSeq ORF: 906 bp

Locus ID: 69724

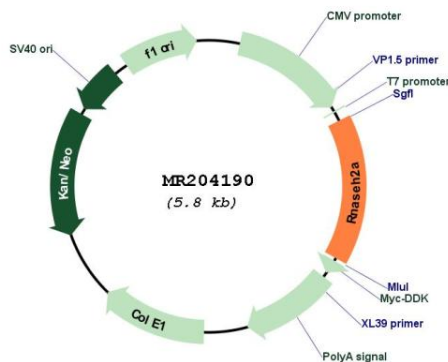
UniProt ID: [Q9CWY8](#)

Cytogenetics: 8 C3

MW: 33.5 kDa

Gene Summary: Catalytic subunit of RNase HII, an endonuclease that specifically degrades the RNA of RNA:DNA hybrids. Participates in DNA replication, possibly by mediating the removal of lagging-strand Okazaki fragment RNA primers during DNA replication. Mediates the excision of single ribonucleotides from DNA:RNA duplexes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204190