

Product datasheet for **RR202776**

Rnaseh2a (NM_001013234) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnaseh2a (NM_001013234) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rnaseh2a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202776 representing NM_001013234
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTCAGCGAACTGGAGAGGGACAATACAGGCCGTTGTCGCCTGAGTTCTCCTGTACCTGCCGTGT
GCCTCAAGGAGCCGTGCGTCCTGGGCGTGGATGAAGCGGGCCGGGTCTGTGCTTGGTCCCATGGTCTA
CGCCATCTGTTACTGCCCCCTGTCCCGCTGGCAGATCTGGAGGCCCTGAAAGTAGCAGACTCAAAGACC
TTGACAGAGAATGAGCGGGAGAGGCTCTTTGCGAAAATGGAAGAGGACGGAGACTTTGTGGTTGGGCTT
TGGACATCCTGTCTCAAACCTGATCTCTACCAGCATGCTTGGGCGGGTCAAATACAACCTCAACTCTAT
GTCTCACGACACAGCCGCGGGGCTGATACAGCATGCGATGGATCAGAATGTGAAAGTCACCCAGGTGTTT
GTGGACACTGTAGGAATGCCAGAGACATACCAGGCTCGACTACAGCAGCGGTTTCCAGGGATCGAGGTGA
CAGTCAAGGCCAAAGCTGACTCCCTGTTCCCTGTGGTCAAGTGTGCGCAGCATATTGCCAAGGTGGCCCG
AGACCAGGCTGTGAAGAACTGGCAGTTTGTGGAGAGTTTACAGGGTCTGGACTCAGATTATGGCTCAGGC
TATCCCAATGATCCCAAGACCAAAGCCTGGCTGAGGAAACATGTGGACCCTGTGTTGGCTTCCCCAGT
TTGTACGGTTCAGTTGGAGCACAGCCAGGCCATCCTGAAAAGGAGGCAGAAAGTGCACCTGGGAAGA
CTCAGCAGCTGAGGAGGATCCTGAGGGACCCGGAAGAATCACCTCTACTTCAGCCAGGGCCCGCAGGCC
TGCCGCCCTCAGGTCTCCACAAATACTTCCAGGAGCGAGGCCTGGAGACAGCCACCAGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202776 representing NM_001013234
 Red=Cloning site Green=Tags(s)

MDLSELERDNTGRCRLSSPVPVAVCLKEPCVLGVDEAGRGPVLPMPVYAICYCPLSRLADLEALKVADSKT
 LTENERERLFAKMEEDGDFVGWALDILSPNLISTSMGRVKYNLNSMSHDTAAGLIQHAMDQNVKVTQVF
 VDTVGMPEYQARLQQRFPGIEVTVKAKADSLFPVVSAAIIAKVARDQAVKNWQFVESLQGLDSDYGS
 YPNDPKTKAWLRKHVDPVFGFPQFVRFVRSWSTAQAILEKEAESVTWEDSAAEEDPEGPGRITSYFSQGPQA
 CRPQVSHKYFQERGLTATSL

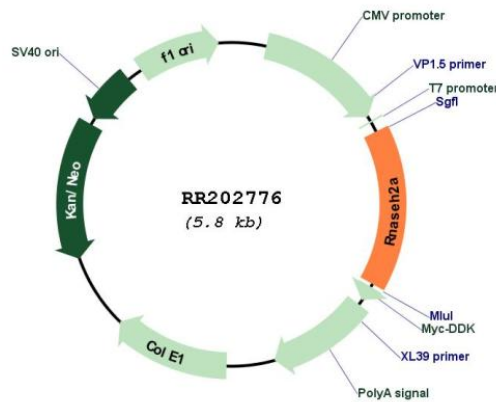
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013234

ORF Size:	903 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:	NM_001013234.1 , NP_001013252.1
RefSeq Size:	1720 bp
RefSeq ORF:	906 bp
Locus ID:	364974
UniProt ID:	Q5U209
Cytogenetics:	19q11
MW:	33.3 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 (By similarity).[UniProtKB/Swiss-Prot Function]