

## Product datasheet for **RR202752**

### Rnaseh2b (NM\_001007007) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnaseh2b (NM_001007007) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnaseh2b
Synonyms:	MGC94780
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202752 representing NM_001007007 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCGGAGGTCGGGACCGGGGACTTGGCTGCTAGGCAGCTAGTGTTCTACTTCCAGAATATTTAA  
AAGATGCCTCGAGGAAGTCGAAGAGCGGCCTCCTGTTTGTAAAGCTGGTCAACCCGCACTCAGGGGAAGG  
AGCCACTTACTTAATTGATGCGTGTCTACAGAAGCTGTTTGAATAAAAGTTTTCAAGGAAAAACCCAT  
TCTTGGTTTATAAATCAGTCAGTTCAATCAGGAGGCCTTCTCCACTTTGCCACACCCATGGACCCTTTAT  
TTCTGCTCCTTCACTATCTCATAAAGGCTGGCAAAGAGGGGAAGTATCAGCCCTTGGATCAGGTTGTAGT  
GGATGACAAGTTTCCAGATTGCACCTTGTCTGCTGAGATTTCTGAGCTTGAGAAGTCACTTCGGCATGTG  
ACAGAGGAAAAAGAAGTGAACAGTAAGAAGTACTATAAGTACAGCACGGAGAAGACATTGAAGTGGCTGG  
AGAAGAAGGTCAACCAACCGTGGCAGCACTGAAAGCCAATCATGTTAATGTTGGAGCCCGGTACAGTC  
TTCTGCATATTTCTCTGGTGTTCAGGTTTCCAGGGACAAGGAAGAAGACTATGTTTCGATATGCCCATGGT  
CTGATCTCTGATTACATCCCTAAAGAATTAAGTGACGATTTATCCAAGCTCTTGAAGCTTCCAGAACCCTC  
CAGCCTCCCTGCCAAACCTCCAGCAAAGAACTAAAGTTAGCAGATGAGCCTGTGGAAGCGAAAGAAGA  
TTACACTAAGTTTAACTAAGGACTTGAAGAACGGCAAGAAAAATAGCAAAATGACTGCAGCTCAGAAG  
GCTTTGGCTAAAGTTGACAAGAGCGGAATGAAAAGTATTGATGCTTTTTTTGGCGCAAAAAATAAAAAA  
CTGGAAAGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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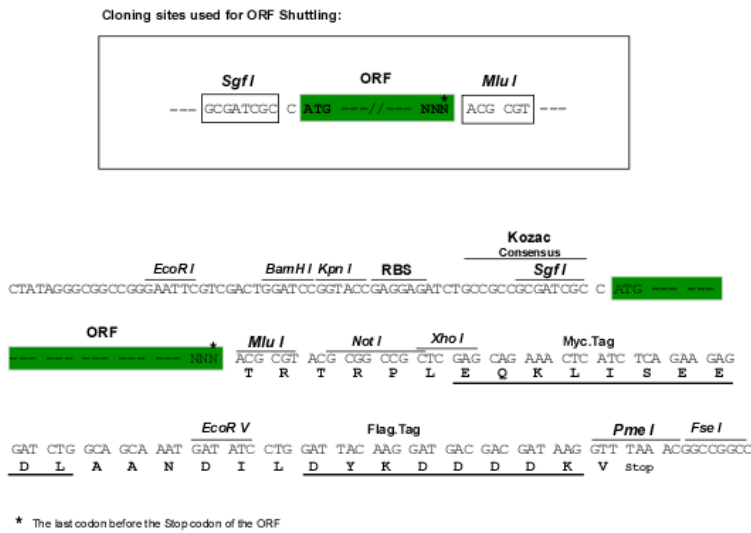
**Protein Sequence:** >RR202752 representing NM\_001007007  
Red=Cloning site Green=Tags(s)

MAGGRDRGDLAARQLVLLPEYLKDasRKsKsGllFVKLVNPHSGEGATYLIDACLQKLFEIKVFKEKHH  
 SWFINQSVQSGllHFATPMDPLFllLHYLIKAGKEGKYQPLDQVVVDDKFPDCTlllRFPELEKSLRHV  
 TEEKEVNSKkYKYSTEkTLKwLEKkVNQTVAALKANhVNVGARVQSSAYFSGVQVSRDKEEDYVRYAHG  
 LISDYIPKELSDDLskLLKlPEPPASLNPpAKKLKLADEpVEAKEDYTKfNTKDLKNGKkNSKMTAAQK  
 ALAKVDKSGMKSIDAFFGAKNKKTKGI

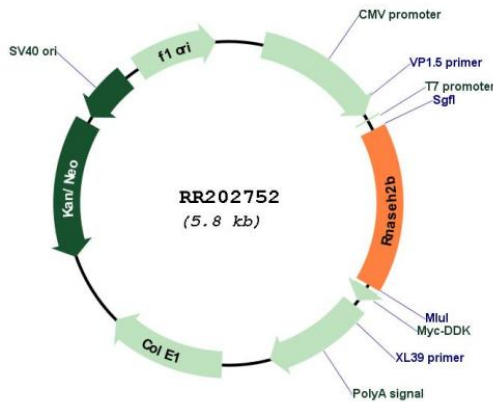
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001007007

**ORF Size:** 921 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001007007.1</a> , <a href="#">NP_001007008.1</a>
<b>RefSeq Size:</b>	1450 bp
<b>RefSeq ORF:</b>	924 bp
<b>Locus ID:</b>	361056
<b>UniProt ID:</b>	<a href="#">Q5XI96</a>
<b>Cytogenetics:</b>	15p12
<b>MW:</b>	34.6 kDa
<b>Gene Summary:</b>	Non catalytic subunit of RNase H2, 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]