

## Product datasheet for **MC221163**

### Rnasel (NM\_011882) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnasel (NM_011882) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rnasel
Synonyms:	E230029I04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221163 representing NM\_011882  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGACCCCGATTATAACACACCTCAGGGTGAACCCCATCAGCGGGAAGTCAGAGGACCGTTGTCC  
 AAGATGATTCTTCGTTGATCAAAGCTGTTCAAGGGGAGATGTTGTCAGGGTCCAGCAATTGTTAGAAAA  
 AGGGGCTGATGCCAATGCCTGTGAAGACACCTGGGGCTGGACACCTTTGCACAACGCAGTCAAGCTGGC  
 AGGGTAGACATTGTGAACCTCCTGCTTAGTCATGGTGCTGACCCTCATCGGAGGAAGAAGATGGGGCCA  
 CCCCCTTCATCATTGCTGGGATCCAGGGAGATGTGAAACTGCTCGAGATTCTCTCTCTTGTGGTGCAGA  
 CGTCAATGAGTGTGACGAGAACGGATTACGGCTTTTCATGGAAGCTGCTGAGCGTGGTAACGCTGAAGCC  
 TTAAGATTCCTTTTTGCTAAGGGAGCCAATGTGAATTTGCGACGACAGACAACGAAGGACAAAAGGCGAT  
 TGAAGCAAGGAGGCCACAGCTCTCATGAGCGTCTGAGAAGGGCCACCTGGAAGTCTGAGAATTCT  
 CCTCAATGACATGAAGGCAGAAGTCGATGCTCGGACAACATGGGCAGAAATGCCCTGATCCGACTCTG  
 CTGAACTGGGATTGTGAAAATGTGGAGGAGATTACTTCAATCCTGATTACGACAGGGGCTGATGTTAACG  
 TGAGAGGAGAAAAGAGGGAAAACCCCTCATCGCAGCAGTGGAGAGGAAGCACACAGGCTTGGTGCAGAT  
 GCTCCTGAGTCGGGAAGGCATAAACATAGATGCCAGGGATAACGAGGGCAAGACAGCTCTGCTAATTGCT  
 GTTGATAAAACACTGAAGGAAATGTCCAGTTGCTTCTTAAAAGGGAGCTGATAAGTGTGACGATCTTG  
 TTTGGATAGCCAGGAGGAATCATGACTATCACCTTGTAAAGCTTCTCTCCCTTATGTAGCTAATCCTGA  
 CACCGACCCTCCTGCTGGAGACTGGTCGCCTCACAGTTCACGTTGGGGGACAGCCTTGAAAAGCCTCCAC  
 AGTATGACTCGACCATGATTGGCAAACCAAGATCTTCAATCATGATGACTATAAAATGCTGGCACTT  
 CCGAAGGGGCTGTCTACCTAGGGATCATGACAATCGAGAAGTGGCTGTGAAGGTCTTCCGTGAGAATAG  
 CCCACGTGGATGTAAGGAAGTCTTTGCTCGGGACTGCGGTGACCACAGTAACCTAGTGGCTTCTAT  
 GGAAGAGAGGACGATAAAGGCTGTTTATATGTGTGTGTGCCCTGTGTGAGTGGACACTGGAAGATTCC  
 TGAGGTTGCCAGAGAGGAACCTGTGGAGAACGGGAAGATAAGTTTGCCACAGCATCCTATTATCTAT  
 ATTTGAGGGTGTCAAAAACACTTGCATGGATATTCCCATCAGGACCTGCAACCACAAAACATCTTA  
 ATAGATCCAAGAAAGCTGTCCGGCTGGCAGATTTTGATCAGAGCATCCGATGGATGGGAGAGTACAGA  
 TGGTCAGGAGAGACTTGGAGGATCTTGGACGGCTGTTTCTACGTGGAATGAAAGGTGAGATCCCCTT  
 TGAGACACTAAAGACTCAGAATGATGAAGTGTCTTACAATGTCTCCAGATGAGGAGACTAAGGACCTC  
 ATTCATTGCCTGTTTTCTCTGGAGAAAATGTCAAGAAGTGCCTGGTAGACCTGCTTGGCCATCCTTTCT  
 TTTGGACTTGGGAGAACCCTATAGAACACTCCGGAATGTGGGAAATGAATCTGACATCAAAGTACGGAA  
 ATGTAAGTGTATCTTCTCAGACTACTGCAGCATCAGACACTTGAAGCTCCAGAGCTTTGACCAGTGG  
 ACATCTAAGATCGACAAAATGTTATGGATGAAATGAATCATTCTACGAAAAGAGAAAAAAAACCCCTT  
 ATCAGGATACTGTAGGTGATCTGCTGAAGTTTATTCGGAATATAGGCGAACACATCAATGAGGAAAAAAA  
 GCGGGGAATGAAGGAGATACTTGGAGATCCTTCTCGTTATTTTCAGGAGACATTTCCAGATCTTGTAAATC  
 TATATCTACAAGAACTAAAGGAAACAGAATACAGAAAACACTTCCACAGCCTCCACCAGCCTCAGCG  
 TTCCAGAGGCAGTGGGACCAGGGGCATACAGAGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_011882  
**Insert Size:** 2208 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<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_011882.2</a> , <a href="#">NP_036012.1</a>
<b>RefSeq Size:</b>	4758 bp
<b>RefSeq ORF:</b>	2208 bp
<b>Locus ID:</b>	24014
<b>UniProt ID:</b>	<a href="#">Q05921</a>
<b>Cytogenetics:</b>	1 G3
<b>Gene Summary:</b>	Endoribonuclease that functions in the interferon (IFN) antiviral response. In INF treated and virus infected cells, RNASEL probably mediates its antiviral effects through a combination of direct cleavage of single-stranded viral RNAs, inhibition of protein synthesis through the degradation of rRNA, induction of apoptosis, and induction of other antiviral genes. RNASEL mediated apoptosis is the result of a JNK-dependent stress-response pathway leading to cytochrome c release from mitochondria and caspase-dependent apoptosis. Therefore, activation of RNASEL could lead to elimination of virus infected cells under some circumstances. In the crosstalk between autophagy and apoptosis proposed to induce autophagy as an early stress response to small double-stranded RNA and at later stages of prolonged stress to activate caspase-dependent proteolytic cleavage of BECN1 to terminate autophagy and promote apoptosis. Might play a central role in the regulation of mRNA turnover (By similarity). Cleaves 3' of UpNp dimers, with preference for UU and UA sequences, to sets of discrete products ranging from between 4 and 22 nucleotides in length (By similarity).[UniProtKB/Swiss-Prot Function]