

## Product datasheet for **MG204190**

### Rnaseh2a (BC038158) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnaseh2a (BC038158) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnaseh2a
Synonyms:	RNHL, RNHIA, RNASEHI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204190 representing BC038158 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCTCAGCGAGCTGGAGAGGGACAATACGGGTCGTTGTCGTCTGAGTTCTCCTGTACCTGCTGTGT  
GTCTCAAGGAGCCGTGCGTTCTGGGCGTGGATGAAGCGGGCCGAGGCCCTGTGCTTGGTCCCATGGTCTA  
CGCCATCTGTTACTGCCCTGTCTCGCTTGGCAGATCTGGAGGCTCTGAAAGTGGCAGACTCTAAGACC  
TTGACAGAGAACGAGCGGGAGAGGCTCTTTCGAAAATGGAGGAGGATGGAGACTTTGTGGTTGGGCTT  
TGGACGTCCTGTCTCAAACCTGATCTCTACCAGCATGCTTGGGCGAGTCAAGTACAACCTCAACTCCCT  
GTCACACGATACAGCAGCGGGGCTGATACAGTACGCACTGGACCAGAATGTGAATGTCACTCAGGATTT  
GTGGACACTGTAGGAATGCCAGAGACATACCAGGCTCGATTACAACAGCACTTTCCCGGGATAGAGGTGA  
CAGTCAAGGCCAAAGCTGACTCCCTGTTCCCTGTGGTCAGTGTGCCAGCATCTTTGCCAAGGTGGCCCG  
AGACAAGGCTGTGAAGAACTGGCAGTTTGTGGAAAATTTACAGGATCTGGACTCCGATTATGGCTCAGGC  
TATCCAATGATCCAAGACCAAGCCTGGCTGAGGAAACATGTGGACCTGTGTTTGGCTTCCCCAGT  
TTGTACGGTTCAGTTGGAGCACAGCCAGGCCATCCTGGAGAAGGAGGCAGAAGATGTCAATTTGGGAGGA  
CTCAGAAGCTGAGGAGGATCCTGAAAGACCGGGAAAAATCACCTCTACTTCAGCCAGGGCCCGCAGACC  
TGCCGCCCTCAGGCCCCACAGATACTCCAGGAGCGAGGCTGGAGGCAGCCAGCAGCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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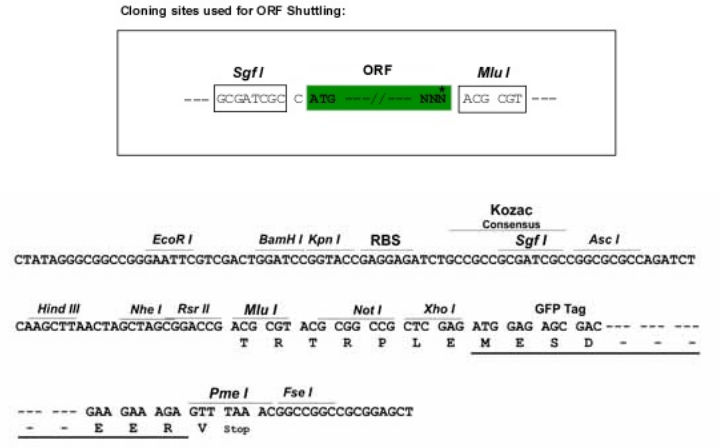
Protein Sequence: >MG204190 representing BC038158  
 Red=Cloning site Green=Tags(s)

MDLSELERDNTGRCRLSSPVPVAVCLKEPCVLGVDEAGRGPVLPMPVYAIICYPLSRLADLEALKVADSKT  
 LTENERERLFAKMEEDGDFVWALDVLSPNLISTSMGRVKYNLNSLSDTAAGLIQYALDQNVNVTQVF  
 VDTVGMPEYQARLQHFPGIEVTVKAKADSLFPVVSAAIFAKVARDKAVKNWQFVENLQDLSDSYGSG  
 YPNDPKTKAWLRKHVDPVFGFPQFVRFVSWSTAQAILEKEAEDVIWEDSEAEEDPERPGKITSYFSQGPQT  
 CRPQAPHRYFQERGLEAASSL

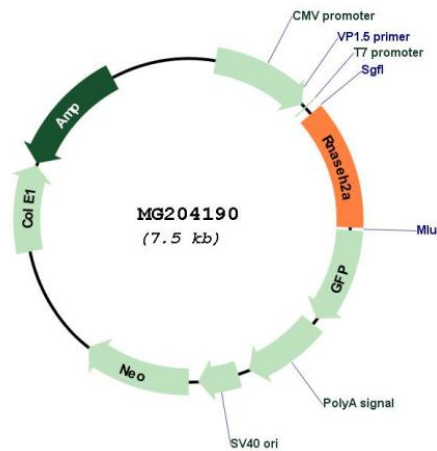
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC038158

ORF Size: 905 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="#">BC038158</a> , <a href="#">AAH38158</a>
<b>RefSeq Size:</b>	1080 bp
<b>RefSeq ORF:</b>	905 bp
<b>Locus ID:</b>	69724
<b>Cytogenetics:</b>	8 C3
<b>Gene Summary:</b>	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]