

Product datasheet for **MG203257**

Rnaseh2a (BC029252) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnaseh2a (BC029252) 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:	>MG203257 representing BC029252 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTCAGCGAGCTGGAGAGGGACAATACGGGTCGTTGTCGTCTGAGTTCTCCTGTACCTGCTGTGT
GTCTCAAGGAGCCGTGCGTTCTGGGCGTGGATGAAGCGGGCCGAGGCCCTGTGCTTGGTCCCATGGTCTA
CGCCATCTGTTACTGCCCCCTGTCTCGCTTGGCAGATCTGGAGGCTCTGAAAGTGGCAGACTCTAAGACC
TTGACAGAGAACGAGCGGGAGAGGCTCTTTCGAAAATGGAGGAGGATGGAGACTTTGTGGTTGGGCTT
TGGACGTCTGTCTCAAACCTGATCTCTACCAGCATGCTTGGGCGAGTCAAGTACAACCTCAACTCCCT
GTCACACGATACAGCAGCGGGGCTGATACAGTACGCACTGGACCAGAATGTGAATGTCACTCAGGATTT
GTGGACACTGTAGGAATGCCAGAGACATACCAGGCTCGATTACAACAGCACTTTCCCGGGATAGAGGTGA
CAGTCAAGGCCAAAGCTGACTCCCTGTTCCCTGTGGTCAGTGTGCCAGCATCTTTGCCAAGGTGGCCCG
AGACAAGGCTGTGAAGAACTGGCAGTTTGTGGAAAATTTACAGGATCTGGACTCCGATTATGGCTCAGGC
TATCCAATGATCCAAGACCAAGCCTGGCTGAGGAAACATGTGGACCCTGTGTTTGGCTTCCCCCAGT
TTGTACGGTTCAGTTGGAGCACAGCCAGGCCATCCTGGAGAAGGAGGCAGAAGATGTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203257 representing BC029252
 Red=Cloning site Green=Tags(s)

MDLSELERDNTGRCRLSSPVPVAVCLKEPCVLGVDEAGRGPVLPMPVYAICYCPLSRLADLEALKVADSKT
 LTENERERLFAKMEEDGDFVGWALDVLSPNLISTSMLGRVKYNLNSLSDTAAGLIQYALDQNVNVTQVF
 VDTVGMPEYQARLQQHFPGIEVTVKAKADSLFPVVSAAIFAKVARDKAVKNWQFVENLQDLDSYDYGSG
 YPNDPKTKAWLRKHVDPVFGFPQFVRFWSWSTAQAILEKEAEDVI

TRTRPLE - GFP Tag - V

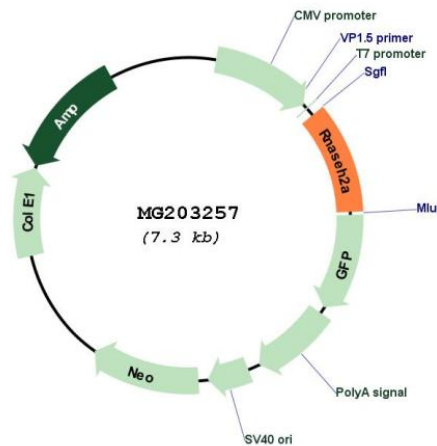
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC029252

ORF Size: 762 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:	BC029252.1
RefSeq Size:	1020 bp
RefSeq ORF:	764 bp
Locus ID:	69724
Cytogenetics:	8 C3
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]