

Product datasheet for **RG202755**

Ribonuclease A (RNASE1) (NM_002933) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ribonuclease A (RNASE1) (NM_002933) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Ribonuclease A
Synonyms: RAC1; RIB1; RNS1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202755 representing NM_002933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCTGGAGAAGTCTCTTGCCGGCTCCTTCTGCTTGTCTGATACTGCTGGTCTGGGCTGGGTCC
 AGCCTTCCCTGGCAAGGAATCCCGGGCCAAGAAATCCAGCGGCAGCATATGGACTCAGACAGTCCCC
 CAGCAGCAGCTCCACCTACTGTAACCAATGATGAGGCGCGGAATATGACACAGGGCGGTGCAAACCA
 GTGAACACCTTTGTGCAGAGCCCCTGGTAGATGTCCAGAATGTCTGTTCCAGGAAAAGGTCACCTGCA
 AGAACGGGCAGGGCAACTGCTACAAGAGCAACTCCAGCATGCACATCACAGACTGCCGCCTGACAAACGG
 CTCCAGGTACCCCACTGTGCATACCGGACCAGCCGAAGGAGAGACACATCATTGTGGCCTGTGAAGGG
 AGCCCATATGTGCCAGTCCACTTTGATGCTTCTGTGGAGGACTCTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202755 representing NM_002933
 Red=Cloning site Green=Tags(s)

MALEKSLVRLLLLVLILLVLGWVQPSLGKESRAKKFQRQHMSDSDSSPSSSSTYCNQMRRRNMTQGRCKP
 VNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSMHI TDCRL TNGSRYPNCAVRTSPKERHII VACEG
 SPYVPVHF DASVEDST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_002933

ORF Size: 468 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:

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_002933.5](#)

RefSeq Size: 827 bp

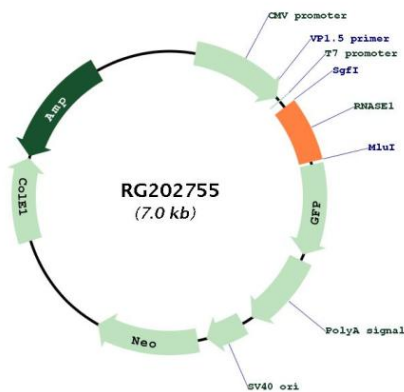
RefSeq ORF: 471 bp

Locus ID: 6035

UniProt ID: [P07998](#)

Cytogenetics:	14q11.2
Domains:	RNase_Pc
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	This gene encodes a member of the pancreatic-type of secretory ribonucleases, a subset of the ribonuclease A superfamily. The encoded endonuclease cleaves internal phosphodiester RNA bonds on the 3'-side of pyrimidine bases. It prefers poly(C) as a substrate and hydrolyzes 2',3'-cyclic nucleotides, with a pH optimum near 8.0. The encoded protein is monomeric and more commonly acts to degrade ds-RNA over ss-RNA. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202755