

## Product datasheet for **RG217926**

### Ribonuclease A (RNASE1) (NM\_198232) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ribonuclease A (RNASE1) (NM\_198232) 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:** >RG217926 representing NM\_198232  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCTGGAGAAGTCTCTTGTCCGGCTCCTTCTGCTTGTCTGATACTGCTGGTGTGGGCTGGGTCC  
AGCCTTCCCTGGCAAGGAATCCCGGGCAAGAAATCCAGCGGCAGCATATGGACTCAGACAGTCCCC  
CAGCAGCAGCTCCACCTACTGTAACAAATGATGAGGCGCGGAATATGACACAGGGCGGTGCAAACCA  
GTGAACACCTTTGTGCACGAGCCCTGGTAGATGTCCAGAATGTCTGTTCCAGGAAAAGGTCACCTGCA  
AGAACGGGCAGGGCAACTGCTACAAGAGCAACTCCAGCATGCACATCACAGACTGCCGCTGACAAACGG  
CTCCAGGTACCCAACTGTGCATACCGGACCAGCCGAAGGAGAGACACATCATTGTGGCCTGTGAAGGG  
AGCCCATATGTGCCAGTCCACTTTGATGCTTCTGTGGAGGACTCTACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217926 representing NM\_198232  
Red=Cloning site Green=Tags(s)

MALEKSLVRLLLLVILLVLGWVQPSLGKESRAKKFQRQHMDSDSSPSSSSTYCNQMRRRNMTQGRCKP  
VNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSMHI TDCRL TNGSRYPNCAVRTSPKERHII VACEG  
SPYVPVHFDA SVEDST

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_198232

**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\\_198232.3](#)

**RefSeq Size:** 889 bp

**RefSeq ORF:** 471 bp

**Locus ID:** 6035

**UniProt ID:** [P07998](#)

**Cytogenetics:** 14q11.2

**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 RG217926