

## Product datasheet for **RG205620**

### Ribonuclease A (RNASE1) (NM\_198235) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ribonuclease A (RNASE1) (NM\_198235) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RNASE1  
**Synonyms:** RAC1; RIB1; RNS1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205620 representing NM\_198235  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCTGGAGAAGTCTCTTGCCGGCTCCTTCTGCTTGTCTGACTGCTGGTGTGGGCTGGGTCC  
AGCCTTCCCTGGCAAGGAATCCCGGGCAAGAAATCCAGCGGCAGCATATGGACTCAGACAGTCCCC  
CAGCAGCAGCTCCACCTACTGTAACCAATGATGAGGCGCGGAATATGACACAGGGCGGTGCAAACCA  
GTGAACACCTTTGTGCACGAGCCCTGGTAGATGTCCAGAATGTCTGTTCCAGGAAAAGGTCACCTGCA  
AGAACGGGCAGGGCAACTGCTACAAGAGCAACTCCAGCATGCACATCACAGACTGCCGCTGACAAACGG  
CTCCAGGTACCCCAACTGTGCATACCGGACCAGCCGAAGGAGAGACACATCATTGTGGCCTGTGAAGGG  
AGCCCATATGTGCCAGTCCACTTTGATGCTTCTGTGGAGGACTCTACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG205620 representing NM\_198235  
Red=Cloning site Green=Tags(s)  
MALEKSLVRLLLLVLLVLLGWVQPSLGKESRAKKFQRQHMDSDSSPSSSSTYCNQMRRRNMTQGRCKP  
VNTFVHEPLVDVQNVCFQEKVTCKNGQGNKYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHII VACEG  
SPYVPVHFDAVEDST

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<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_198235.3</a>
<b>RefSeq Size:</b>	907 bp
<b>RefSeq ORF:</b>	471 bp
<b>Locus ID:</b>	6035
<b>UniProt ID:</b>	<a href="#">P07998</a>
<b>Cytogenetics:</b>	14q11.2
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Gene Summary:</b>	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]