

Product datasheet for **RG222114**

Ribonuclease A (RNASE1) (NM_198234) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ribonuclease A (RNASE1) (NM_198234) 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: >RG222114 representing NM_198234
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGGAGAAGTCTCTTGCCGGCTCCTTCTGCTTGTCTGATACTGCTGGTGTGGGCTGGGTCC
AGCCTTCCCTGGCAAGGAATCCCGGGCAAGAAATCCAGCGGCAGCATATGGACTCAGACAGTCCCC
CAGCAGCAGCTCCACCTACTGTAACCAATGATGAGGCGCGGAATATGACACAGGGCGGTGCAAACCA
GTGAACACCTTTGTGCACGAGCCCTGGTAGATGTCCAGAATGTCTGTTCCAGGAAAAGGTCACCTGCA
AGAACGGGCAGGGCAACTGCTACAAGAGCAACTCCAGCATGCACATCACAGACTGCCGCTGACAAACGG
CTCCAGGTACCCCAACTGTGCATACCGGACCAGCCGAAGGAGAGACACATCATTGTGGCCTGTGAAGGG
AGCCCATATGTGCCAGTCCACTTTGATGCTTCTGTGGAGGACTCTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222114 representing NM_198234
Red=Cloning site Green=Tags(s)
MALEKSLVRLLLLVLLVLLGWVQPSLGKESRAKKFQRQHMDSDSSPSSSSTYCNQMRRRNMTQGRCKP
VNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHII VACEG
SPYVPVHFDAVEDST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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:	NM_198234.3
RefSeq Size:	898 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]