

OriGene Technologies, Inc.

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Product datasheet for RG222114

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

Product data:

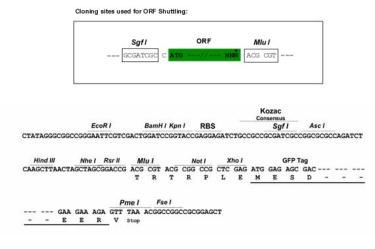
Product Type:	Expression Plasmids
Product Name:	Ribonuclease A (RNASE1) (NM_198234) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNASE1
Synonyms:	RAC1; RIB1; RNS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG222114 representing NM_198234 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTCTGGAGAAGTCTCTTGTCCGGCTCCTTCTGCTTGTCCTGATACTGCTGGTGCTGGGCTGGGTCC AGCCTTCCCTGGGCAAGGAATCCCGGGCCAAGAAATTCCAGCGGCAGCATATGGACTCAGACAGTTCCCC CAGCAGCAGCTCCACCTACTGTAACCAAATGATGAGGGCGCCGGAATATGACACAGGGGCGGTGCAAACCA GTGAACACCTTTGTGCACGAGCCCCTGGTAGATGTCCAGAATGTCTGTTTCCAGGAAAAGGTCACCTGCA AGAACGGGCAGGGCA
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>RG222114 representing NM_198234 Red=Cloning site Green=Tags(s)</pre>
	MALEKSLVRLLLLVLILLVLGWVQPSLGKESRAKKFQRQHMDSDSSPSSSSTYCNQMMRRRNMTQGRCKP VNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSMHITDCRLTNGSRYPNCAYRTSPKERHIIVACEG SPYVPVHFDASVEDST
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



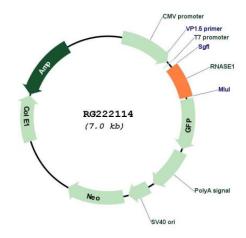
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Cloning Scheme:



Plasmid Map:



ACCN:	NM_198234
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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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CRIGENE Ribonuclease A (RNASE1) (NM_198234) Human Tagged ORF Clone – RG222114	
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 198234.3</u>
RefSeq Size:	898 bp
RefSeq ORF:	471 bp
Locus ID:	6035
UniProt ID:	<u>P07998</u>
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]

RefSeq, Jul 2008]

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