

Product datasheet for **SC112978**

RNase L (RNASEL) (NM_021133) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNase L (RNASEL) (NM_021133) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNase L
Synonyms:	PRCA1; RNS4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_021133, the custom clone sequence may differ by one or more nucleotides

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ATGGAGAGCAGGGATCATAACAACCCCCAGGAGGGACCCACGTCCTCCAGCGGTAGAAGGGCTGCAGTGG
AAGACAATCACTTGCTGATTAAGCTGTTCAAACGAAGATGTTGACCTGGTCCAGCAATTGCTGGAAGG
TGGAGCCAATGTTAATTTCCAGGAAGAGGAAGGGGGCTGGACACCTCGCATAACGCAGTACAAATGAGC
AGGGAGGACATTGTGAACTTCTGCTTCGTCATGGTGCTGACCCTGTTCTGAGGAAGAAGAATGGGGCCA
CGCCTTTTATCCTCGCAGCGATTGCGGGGAGCGTGAAGCTGCTGAACTTTTCTTTCTAAAGGAGCAGA
TGTCAATGAGTGTGATTTTATGGCTTACAGCCTTCATGGAAGCCGCTGTGTATGGTAAGGTCAAAGCC
CTAAAATTCCTTTATAAGAGAGGAGCAAATGTGAATTTGAGGCGAAAGACAAAGGAGGATCAAGAGCGGC
TGAGGAAAGGAGGGGCCACAGCTCTCATGGACGCTGCTGAAAAAGGACACGTAGAGGTCTTGAGATTCT
CCTTGATGAGATGGGGCAGATGTAACGCCTGTGACAATATGGGCAGAAATGCCTTGATCCATGCTCTC
CTGAGCTCTGACGATAGTGTGTGGAGGCTATTACGCATCTGCTGCTGGACCATGGGGCTGATGTCAATG
TGAGGGGAGAAAGAGGGAAGACTCCCCTGATCCTGGCAGTGGAGAAGAAGCACTTGGGTTTGGTGCAGAG
GCTTCTGGAGCAAGAGCAGATAGAGATTAAATGACACAGACAGTGTATGGCAAAACAGCACTGCTGTTGCT
GTTGAACTCAAACGAAGAAAATCGCCGAGTTGCTGTGCAACCTGGAGCCAGTACAGATTGTGGGGATC
TTGTTATGACAGCGAGGCGGAATTATGACCATTCCCTTGTGAAGTTCTTCTCTCATGGAGCCAAAGA
AGATTTTACCCTCCTGCTGAAGACTGGAAGCCTCAGAGCTCACACTGGGGGGCAGCCCTGAAGGATCTC
CACAGAATATACCGCCCTATGATTGGCAAACCTCAAGTTCTTTATTGATGAAAAATACAAAATTGCTGATA
CTTCAGAAGGAGGCATCTACCTGGGGTTCTATGAGAAGCAAGAAGTAGCTGTGAAGACGTTCTGTGAGGG
CAGCCCACGTGCACAGCGGAAGTCTCTGTCTGCAAAGCAGCCGAGAGAACAGTCACTTGGTGACATTC
TATGGGAGTGAGAGCCACAGGGGCCACTGTTTTGTGTGTGTACCCTCTGTGAGCAGACTCTGGAAGCGT
GTTTGGATGTGCACAGAGGGGAAGATGTGAAAAATGAGGAAGATGAATTTGCCCGAAATGCTCTGTATC
TATATTTAAGGCTGTTCAAGAACTACACTTGTCTGTGGATACACCCACCAGGATCTGCAACCACAAAAC
ATCTTAATAGATTCTAAGAAAGCTGCTCACCTGGCAGATTTTGATAAGAGCATCAAGTGGGCTGGAGATC
CACAGGAAGTCAAGAGAGATCTAGAGGACCTTGGACGGCTGGTCTCTATGTGGTAAAGAAGGGAAGCAT
CTCATTGAGGATCTGAAAGCTCAAAGTAAATGAAGAGGTGGTCAACTTCTCCAGATGAGGAACTAAG
GACCTCATTTCATGCTCTTCCATCCTGGGAACATGTGAGGGACTGTCTGAGTGACCTGCTGGGTATC
CCTTCTTTGGACTTGGGAGAGCCGCTATAGGACGCTTCGGAATGTGGAAATGAATCCGACATCAAAC
ACGAAAATCTGAAAGTGAGATCCTCAGACTACTGCAACCTGGGCCTTCTGAACATTCCAAAAGTTTTGAC
AAGTGGACGACTAAGATTAATGAATGTGTATGAAAAAATGAATAAGTTTTATGAAAAAGAGGCAATT
TCTACCAGAACACTGTGGGTGATCTGCTAAAGTTCATCCGGAATTTGGGAGAACACATTGATGAAGAAAA
GCATAAAAAGATGAAATTAATAATTTGGAGACCCTCCCTGATTTTTCAGAAGACATTTCCAGATCTGGTG
ATCTATGTCTACAAAACTACAGAACACAGAATATAGAAAGCATTTCCCCCAAACCCACAGTCCAAACA
AGCCTCAGTGTGATGGAGCTGGTGGGGCCAGTGGGTTGGCCAGCCCTGGGTGCTGA
    
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Restriction Sites: Please inquire

ACCN: NM_021133

Insert Size: 4700 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_021133.2](#), [NP_066956.1](#)

RefSeq Size: 4166 bp

RefSeq ORF: 2226 bp

Locus ID: 6041

UniProt ID: [Q05823](#)

Cytogenetics: 1q25.3

Domains: pkinase, ANK, S_TKc, PUG

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a component of the interferon-regulated 2-5A system that functions in the antiviral and antiproliferative roles of interferons. Mutations in this gene have been associated with predisposition to prostate cancer and this gene is a candidate for the hereditary prostate cancer 1 (HPC1) allele. [provided by RefSeq, Jul 2008]