

Product datasheet for **RC228084**

RPAIN (NM_001160266) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPAIN (NM_001160266) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RPAIN
Synonyms: HRIP; RIP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC228084 representing NM_001160266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGGAGTCGTTGAGGTCTCCGCGCCGCTCCCTGTACAACTGGTGGGCTCGCCGCTTGAAAGAGG
 CTTTCCGGCAGAGATGCCTGGAGAGAATGAGAAACAGCCGGGACAGGCTCCTAACAGGTACCGCCAGGC
 TGAAGCAGTGGGCCAGGAATTCTCAGAACAGCTTTCTAGTTCAAGAGGTGATGGAAGAAGAGTGAAT
 GCTTTGCAGTCAGTGGAGAATTGTCCAGAAGACTTGGCTCAGCTGGAGGAGCTGATAGACATGGCTGTGC
 TGGAGGAAATTCAACAGGAGCTGATCAACCAAGAGCAGTCCATCATCAGCGAGTATGAGAAGAGCTTGCA
 GTTTGATGAAAAGTGTCTCAGCATCATGCTGGCTGAGTGGGAGGCAAACCACTCATCTGTCTGTATGT
 ACAAAGCCTGTGATACTTGGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228084 representing NM_001160266
 Red=Cloning site Green=Tags(s)

MAESLRSPRRSLYKLVGSPWPKEAFRQRCLEMRNSRDRLNRYRQAGSSGPGNSQNSFLVQEVMEEEWN
 ALQSVENCPEDLAQLEELIDMAVLEEIQQELINQEQSIISEYEKSLQFDEKCLSIMLAWEANPLICPVC
 TKPVILGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

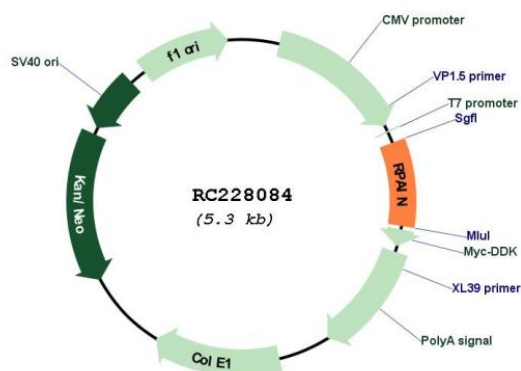
Restriction Sites: SgfI-MluI


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001160266

ORF Size: 444 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:	<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:	<u>NM_001160266.1, NP_001153738.1</u>
RefSeq ORF:	447 bp
Locus ID:	84268
UniProt ID:	<u>Q86UA6</u>
Cytogenetics:	17p13.2
MW:	16.9 kDa
Gene Summary:	Mediates the import of RPA complex into the nucleus, possibly via some interaction with importin beta. Isoform 2 is sumoylated and mediates the localization of RPA complex into the PML body of the nucleus, thereby participating in RPA function in DNA metabolism. [UniProtKB/Swiss-Prot Function]