

Product datasheet for MR228271

Rpain (NM_001252413) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rpain (NM_001252413) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rpain
Synonyms: 2400006N03Rik; Rip
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228271 representing NM_001252413
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAGTCTCGGGTCTCCGACCGCTTGTGTACAAGCAGGTGGGCTCGCCCCACTGAAAGAAA
CTTTCAGGCAGGGATGTCTGGAGAGAATGAGAAACAGCAGGCACAGGCTCCTGAACAAATATCGCCAGGC
TGCAGGTAGCACGCCGGGACAGCCTCAGACAGACTTCTGTGCAAGAAGTAATGGAGGAAGAGTGGGCT
TCTTTGCAGTCTGTGGAGAATTGTCCGGAGGCCTTGCTTCAGTTGGAATTGCCACTGGACCTAGCTGTGC
TGCAGGACATCGAGCAGGAGCTGTGAATGAAGAAAAGTCCATCATAAGCGAGTATGAAGAGGACTTAGA
GTTTGTGAAAGTTGTCTCAGGAGAATGTTGGCTGAGTGGGAAGCAAACCTCCCTCATCTGTCTGTGTGT
ATAAAGTACAACCTGAGAATAATGAACAGTGTGGTACAGTGTCCATGTGGCCTGCACATCCCTGTTTACA
CTTGTGACACCTGGGCTGTGATCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228271 representing NM_001252413
Red=Cloning site Green=Tags(s)

MAESSGSPHRLLYKQVGSPhWKETFRQGCLERMNRHRLLNKYRQAAGSTPGTASDRLLVQEVMEEEWA
SLQSVENCPEALLQLEPLDLAVLQDIEQELCNEEKSIISEYEEDLEFDESCLRRMLAEWEANSLICPVC
IKYNLRIMNSVVTCPGLHIPVHTCDTWAVIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

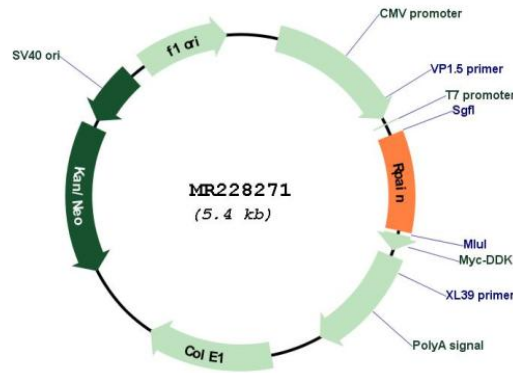
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001252413

ORF Size: 516 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_001252413.2</u>
RefSeq Size:	1072 bp
RefSeq ORF:	519 bp
Locus ID:	69723
UniProt ID:	<u>Q9CWY9</u>
Cytogenetics:	11 B4
MW:	20.2 kDa
Gene Summary:	Mediates the import of RPA complex into the nucleus, possibly via some interaction with importin beta. Sumoylation mediates the localization of RPA complex into the PML body of the nucleus, thereby participating in RPA function in DNA metabolism (By similarity). [UniProtKB/Swiss-Prot Function]