

Product datasheet for **MR230331**

Rnpc3 (NM_001038696) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnpc3 (NM_001038696) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnpc3
Synonyms:	2810441O16Rik; AI447568; C030014B17Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230331 representing NM_001038696
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCCTGAGCCGCGATGCCGCTGCCGAGGCGGCCAGGCTCCGCTTCGCTTCTCCGCCCC
 GGGGAGACCGCACCTCCTCGTCAGGCACCTGCCGGCCGAGCTGACGGCTGAGGAGAAGGAGGACTTACT
 GAAGTACTTCGGGGCGCAGTCGGTGCCTCCTGTGAGATAAGGGGCGCTGAAACACACAGCATTGCT
 ACTTTCCCTAATGAAAAAGCAGCAATAAAGGCACTGACGAGACTCCATCAGCTGAAACTTCTAGGTCATA
 CTTTAGTTGTTGAATTTGCAAAAGAGCAAGATCGAGTTCCTCCCATGTTCCACCTCAAATACAGAGAA
 AAAGAAAAGTTGGATGACACTGTGAAAATGATAAAGAGAAGAAAGAACCTGACATTTTAAACAGTAGAA
 AATGGAATGCACCAATCATGGCTGACTTTTCTCTGAATTCATGCCTTAAATATATGTATCCTCCAC
 CATCAAGCACAATCCTCGCAAATATAGTAAATGCTCTGGCAAGTGTCCAAAATTCTATGTACAGGTGCT
 TCATCTTATGAATAAAATGAATTTGCCACACCATTTGGACCGATTACTGCACGACTCCTATGTATGAG
 GACTATATGCCATTGCATGCACCCCTTCCACCTACATCCCTCAACCGCCTGAGGAGCCTCCCTACCAG
 ATGAGGATGAGGATTTATCTAGCAAAGAATCAGAATATGAAAGCAGTGATGAGGAGGACCGACAGAGAAT
 GAACAGATTAATGGAAGTAGCAAATCTTCAGCCAAAAGACCCAAAACAGAAAAGCCACGCCACGTGAGA
 AAAAAGCGAAAAATAAAGGATATGTTGAATATACCTTCATCAGCTTACATAGTTTGATCCTGTGCTGT
 TACCTTCGGATGTATTTGACCAGCCACAATCTGTAGGTAATAAAAAATTGAGTTCAATATATCAACCAA
 CATGCCTGCAGCATTTAACAAAGATTTGGAGACACAACCAATAATGAAGAAGAAAATTCTGATTCACCA
 GACTGGACTTGATTCAAATACAGGATTTGGCAAAATCTCCCTAAACCTAATTTGAACATCACAGAAG
 AGATTACAGAAGACTCTGATGAAAATACCAATTTATTTCTAGAAAAGAGTTGAAAAGGGTCGTAT
 TTCTAGAGAAGAAATGGAAACACTTTCAGTTTTTGAAGTTATGAACCTGGTGAACCAAACTGCAGAATT
 TATGTAAGAATTTAGCTAGACATGTTCAAGAAAAGACCTTAAATTTATATTTGGAAGATACGTTGACT
 TTTCTTCAGAAACACAGCGGATCATGTTTGATTTGCTTAATGAAAGAAGGACGCATGAAAGGACAAGC
 TTTTGTGGACTTCCAAATGAAAAGCAGCCGCTAAAGCGTTGAAAGAAGCTAATGGCTATGTTCTTTT
 GGAAAACCATGGTGGTTCAGTTTGTCTGATCTGCTAGACCAAAACAGGATTCTAAGAAGGAAAACGGA
 AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230331 representing NM_001038696
 Red=Cloning site Green=Tags(s)

MAGPEPPMPLSRGGPGSASLSPPRGDRLLVRHLPaelTAEKEDLLKYFGAQSvrVLSdkGRLKHTAFA
 TFPNEKAAIKALTRLHQLKLLGHTLVVEFAKEQDRVHSPCSTSNTEKKKRLDDTVENDKEKKEPDILTVE
 NGIAPNHGLTFPLNSCLKYMYPPSSSTILANIVNALASVPKFYVQVHLHLMNKMNLTPFGPITARPPMYE
 DYMPHAPLPPTSPQPPEEPPLPDEDEDLSSKESEYESSDEDRQRMNRLMELANLQPKRPKTEKPRHVR
 KKRKIKDMLNIPSSASHSLHPVLLPSDFDQPQSVGNKKEFNISTNMPAAFNKDLETQPNNEEENS DSP
 DTGLDSNTGFGKIFPKPNLNITEEITEDSDEIPSQFISRKELEKGRISREEMETLSVFRSYEPGEPNCRI
 YVKNLARHVQEKDLKIFGRYVDFSSSETQRIMFDIRLMKEGRMKQAFVGLPNEKAAAKALKEANGYVLF
 GKPMVVQFARSARPKQDSKEGKRK

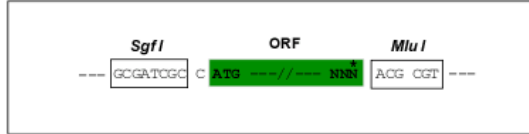
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

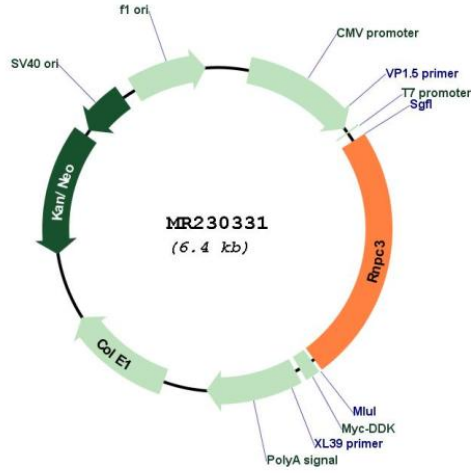
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN:	NM_001038696
ORF Size:	1542 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:	NM_001038696.1 , NP_001033785.1
RefSeq Size:	3888 bp
RefSeq ORF:	1545 bp
Locus ID:	67225
UniProt ID:	Q3UZ01
Cytogenetics:	3 F3
MW:	58.4 kDa
Gene Summary:	Participates in pre-mRNA U12-dependent splicing, performed by the minor spliceosome which removes U12-type introns. U12-type introns comprises less than 1% of all non-coding sequences. Binds to the 3'-stem-loop of m(7)G-capped U12 snRNA (By similarity). [UniProtKB/Swiss-Prot Function]