

Product datasheet for **RR204163**

Nup50 (NM_012991) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nup50 (NM_012991) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nup50
Synonyms:	Npap60; Rtp60
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204163 representing NM_012991
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGAAGAGAGTTGCGGAGAAGGAATTAACAGATAGGAATTGGGATGAAGAAGATGAAGTTGAAGAGA
 TGGGAACATTCTCAGTGGCCAGTGAGGAAGTCATGAAGAACAGAGCCGTGAAGAAGGCAAAGCGTAGGAA
 TATTGGCTTTGAATCTGATAGCGGAGGAGCCTTTAAAGGTTTCAAAGGGTTGGTTGTGCCTTCTGGAGGA
 GGAGGGTTTTCTGGATTTGGTGGTGGCTCTGGAGGGAAGCCTCTGGAAGGACTGACAAATGGAAACAGCA
 CAGACAGTGCCACGCCCTTCTCCAGTCAAAGACAGCAGCGGAGCCTAAGGCAGCCTTTGGTTCTTTTGC
 TGTGAATGGCCCTACTACTTTGGTGGATAAAAAGATCTCCAGTCTAAATGCAATAGCAGCAATCAGCCG
 CCCTCTCCGGCCAGCCTCCAGTACCTCTGCACTGGGAATACCTATCATAAGCAGTTGGCTGGCTTGA
 ACTGCTCTGTCCGGGATTGGATAGTGAAGCATGTTAACACAAACCCACTTTGTGACCTGACGCCATTTT
 TAAAGACTACGAGAGATACTTAGCGACGATCGAGAAGCAGCTGGAGAATGGGGTAGCAGCAGCTCAGAG
 AGACAGACAGACAGGGCGACGGCTGCAATGGAGCCTCCTCCCTTTTGGTTCAACAAAACCTACAGCAAG
 ATTCACCATTTTCATTTTATGGCAACAAAGCGGAGGACACATCTGAAAAGTTGGAGTTTACAGCAGAAAA
 GAAATCGGACGCAGCACAAGGAGCAACAAGTGCCTCGTTTAAATTTGGCAAGAAAATTGAGAGCTCAGTT
 TTGGGCTCTTAAAGCTCTGGCTCCCTAACTGGGTTTTCTCTCTCTGAAACTCTAGTTTATTTGGTA
 AAGATGCTGCCAGAGTAAAGCAGCCTCTTACCCTTTCTGCTAAAGCATCCGAGAGTCAAGCAGGAGG
 CAGCAGCAGTGAAGTGCAGAGATGGTGAAGAAGAGGAGAGTGAAGCCACCAAGGTGGTGGTGAAGTAA
 GTGAAGGAAGAGGATGCTTTCTACTCAAAAAATGTAAGTATTTTACAAGAAAGACAATGAATTTAAAG
 AGAAGGGTGTGGGACCCTGCATTTAAACCCACAGCAACTCAGAAGACCCAGCTTTGGTGCAGGCAAG
 ACCCAACCTAGGCAACATTTCTGCTGAATGTTCTGATCCCAACCAATATGCCGTGCACCCGGACAGGGAAG
 AACAAATGCTTTATCGTCTGTGTCCCAACCCCACTTGTGATGAGAAGCAGCCACTCTCCCGGTACCA
 TGCTGATTCGGGTGAAGACGAGCAGGATGCTGATGAGTGCACAAGATTTACTGCAGAAAAAGGACGT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204163 representing NM_012991
 Red=Cloning site Green=Tags(s)

MAKRVAEKELTDRNWDEEVEEMGTFVASEEVMKNRAVKKAKRRNIGFESDSGGAFKGFKGLVVPSSG
 GGFSGFGGGSGGKPLEGLTNGNSTDSATPFSSAKTAAEPKAAFGSFAVNGPTTLVDKKISSPKCNSSNQ
 PSSGPASSTCTGNTYHKQLAGLNCVSRDWIVKHVNTNPLCDLTPIFKDYERYLATIEKQLENGGSSSE
 RQTDRAAAMEPPSLFGSTKLQDSPFSFHGNKAEDTSEKLEFTAEKKSAAAQGATSASFNGKKIESSV
 LGSLSSGSLTGFSPGNSSLFGKDAQAASSPFSKASESQAGGSSSECRDGESESEPPKVVVTE
 VKEEDAFYSKCKLFYKKNDFKEKGVGTLHLKPTATQKTQLLVRADTNLGNILLNVLIPPMPCTRIGK
 NNVLIVCPNPLDEKQPTLPVTMLIRVKTSEDADELHKILLQKKDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

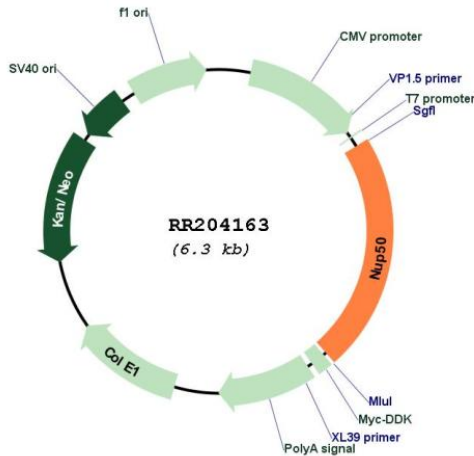
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_012991

ORF Size:

1401 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:

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_012991.1](#), [NP_037123.1](#)

RefSeq Size: 3027 bp

RefSeq ORF: 1404 bp

Locus ID: 25497

UniProt ID: [O08587](#)

Cytogenetics: 7q34

MW: 49.8 kDa

Gene Summary: nucleoporin with a role in nuclear protein export [RGD, Feb 2006]