

Product datasheet for **MR207453**

Nup50 (NM_016714) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nup50 (NM_016714) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nup50
Synonyms:	1700030K07Rik; AI413123; Npap60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207453 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGAAGAGAGTTGCGGAGAAGGAGTTGACTGACAGGAAGTGGGATGAGGAAGACGAAGTTGAAGAGA
 TGGGAACATTCTCAGTGGCCAGTGAGGAAGTCATGAAGAACAGAGCCGTAAGAAGGCAAAGCGCAGAAA
 CGTTGGATTTGAATCTGATAGCGGAGGAGCCTTTAAAGGTTTCAAAGGTTTGGTTGTGCCTTCTGGAGGA
 GGAGGTTTTCTGGATTTGGTGGCTCTGGAGGAAAGCCTCTGGAAGGACTGACAAATGGAACAGCACAG
 ACAATGCCACGCCCTTCTCCAATGTAAGACAGCAGCAGAGCCCAAGGCAGCCTTTGGTTCTTTTGTCTGT
 GAATGGCCCTACTACCTTGGTGGATAAAAAAGTTTCAAGTCCCAATGCAATAACAGCAATCAGCCGCC
 TCCTCCGCCCTGCTCCAGTACCGCTGCCCTGGGAATGCCTATCACAAGCAGCTGGCTGGCTTGAAGT
 GCTCCGTCGCGATTGGATAGTGAAGCAGTGAACACAAACCCGCTTTGTGACCTGACTCCCATTTTTAA
 AGACTATGAGAGATACTTGGCGACGATCGAGAAGCAGCTTGAGAATGGAGCGGCAGCAGTTCTGAGAGC
 CAGACAGACAGGGCGACGCTGGAATGGAGCCTCCTTCCCTTTTTGGTTCAACAAAACACTACAGCAAGAGT
 CACCATTTTCATTTTCATGGCAACAAAGCGGAGGACACATCTGAAAAGGTGGAGTTTACAGCAGAAAAGAA
 ATCGGACGCAGCACAAGGAGCAACAAGTGCCTCGTTTAGTTTTCGCAAGAAAATTGAGAGCTCGGCTTTG
 GGCTCGTTAAGCTCTGGCTCCCTAACTGGGTTTTATTCTCTGCTGGAAGCTCCAGCTTGTTTGGTAAAG
 ATGCTGCCAGAGTAAAGCAGCCTTCTCGCTGTCTCTGCTAAAGCATCCGAGAGTCCGGCAGGAGGCGG
 CAGCAGCGAGTGACAGAGATGGTGAAGAAGAGGAGAATGACGAGCCACCAAGGTAGTGGTGACCGAAGTA
 AAGGAAGAGGATGCTTTCTACTCAAAAAATGTAAGTATTTTACAAGAAAAGACAACGAATTTAAAGAGA
 AGGGTGTGGGGACCCTGCATTTAAAACCCACAGCAACTCAGAAGACCCAGCTCTTGGTGCCGGCAGAC
 CAACCTAGGCAACATACTGCTGAATGTTCTGATCGCCCCAACATGCCGTGCACCCGGACAGGAAAAGAAC
 AACGTCCTTATCGTCTGTGTCCCAACCCCACTCGATGAGAAGCAGCCCACTCTCCCGCCACCATG
 TGATCCGGGTGAAGACGAGCGAGGATGCCGATGAATTGCACAAGATTTTACTGGAGAAAAGGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207453 protein sequence
 Red=Cloning site Green=Tags(s)

MAKRVAEKELTDRNWDEEDEVEEMGTFVASEEVMKNRAVKKAKRRNVGFESDSGGAFKGFKGLVVPSSG
 GGFSGFGSGGKPLEGLTNGNSTDNATPFVSNVKTAAEPKAAFSGFVNGPTTLVDKIISSPKCNNSNQPP
 SSGPASSTACPGNAYHKQLAGLNCVSRDWIVKHVNTNPLCDLTPIFKDYERYLATIEKQLENGGSSSES
 QTDRTATAGMEPPSLFGSTKLQESPFVSHGNKAEDTSEKVEFTAEEKSDAAQGATSASFSGKKIESSAL
 GSLSSGSLTGFVFSAGSSSLFGKDAQSKAASSLFSKASESPAGGSSSECRDGEENDEPPKVVVTEV
 KEEDAFYSKCKLFYKKNDFEKEKGVGLHLPKPTATQKTQLLVRADTNLGNILLNVLNLIAPNMPCTRTGKN
 NVLIVCPNPLDEKQPTLPATMLIRVKTSEDADELHKILLEKKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_016714

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_016714.2](#), [NP_057923.2](#)

RefSeq Size: 4766 bp

RefSeq ORF: 1401 bp

Locus ID: 18141

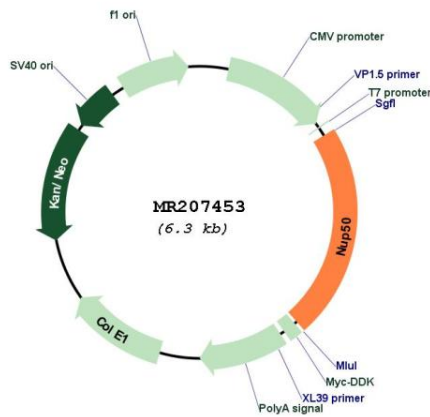
UniProt ID: [Q9JIH2](#)

Cytogenetics: 15 40.25 cM

MW: 49.5 kDa

Gene Summary: Component of the nuclear pore complex that has a direct role in nuclear protein import (PubMed:10811608). Actively displaces NLSs from importin-alpha, and facilitates disassembly of the importin-alpha:beta-cargo complex and importin recycling (PubMed:16222336). Interacts with regulatory proteins of cell cycle progression including CDKN1B (PubMed:10891500, PubMed:10811608). This interaction is required for correct intracellular transport and degradation of CDKN1B (PubMed:10811608).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207453