

## Product datasheet for **RC209975**

### **NUP50 (NM\_007172) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUP50 (NM_007172) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUP50
Synonyms:	NPAP60; NPAP60L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC209975 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAAAAGAATGCCGAGAAGAACTGACAGATAGGAATTGGGATCAAGAAGATGAAGCTGAAGAGG  
 TGGGAACATTCTCCATGGCCAGTGAGGAAGTCTTGAAGAATAGAGCCATAAAGAAAAGCAAAGCGCAGAAA  
 TGTGGATTTGAATCTGACACTGGAGGAGCCTTTAAAGTTTTAAAGTTTTGGTGTACCTTCTGGAGGA  
 GGACGCTTTTCTGGATTTGGTAGTGGCGCTGGAGGGAAGCCTTTGGAAGGACTGTCGAATGGAAACAACA  
 TAACCAGTGCCCTCCCTTCGCCAGTGCAAAGGCAGCGGAGATCCCAAGGTAGCCTTTGGTTCTCTTGC  
 TGCAAATGGCCCTACCACCTTGGTTGATAAAGTTTCAAATCCAAAATAATGGGACAGTCAGCAGCCC  
 TCCTCCTCTGGCCTTGTCCAGTAAAGCTTGTGTCGAAATGCCTATCACAAGCAGTTGGCCGCTTGA  
 ACTGCTCCGTGCGGGATTGGATAGTGAAGCACGTGAATACAAACCCCTCTGTGATCTGACACCTATCTT  
 TAAAGACTATGAGAAATATTTAGCAAACATTGAACAGCAACACGGGAACAGTGGCAGGAATTCTGAAAGT  
 GAATCTAACAAAGTGGCAGCTGAAACACAGTCTCCTTCCCTTTTTGGCTCAACAAAATTACAGCAAGAGT  
 CAACGTTTTTGTTCATGGCAACAAAAGTGAAGATACACCTGACAAGAAGATGGAGTGGCATCTGAAAA  
 GAAAACGGACCCATCATCACTAGGAGCGACAAGTGCCTCATTTAATTTCCGCAAGAAAGTTGATAGCTCT  
 GTTTTGGGCTCATTAAAGCTCTGTCCCTGACTGGATTTCTTTCTCCCTGGAAACTCCAGTTTATTTG  
 GCAAAGATACTACCCAGAGTAAACCAGTCTTCCACATTTCCCACTAAACCATTGGAGGGCCAAGCAGA  
 AGGTGACAGTGGTGAATGCAAAGTGGAGATGAAGAAGAGAATGATGAGCCACCCAAAGTAGTAGTTACC  
 GAAGTAAAAGAAGAAGATGCTTTTTACTCCAAAAGTGTAACTGTTTTACAAGAAAGACAATGAGTTTA  
 AAGAGAAAAGGCATAGGTACTCTGCATTTAAAACCTACAGCAATCAGAAGACACAGCTTTTGGTGGGGC  
 AGACACCAATTTAGGCAACATATTGCTGAACGTTCTGATTCCACCAATATGCCATGTACGCGAACAGGG  
 AAGAATAACGTTCTTATCGTCTGTGTTCCAAATCCACCAATTGACGAGAAGAATGCCACCATGCCAGTCA  
 CCATGTTGATTCCGGTAAAAACAGCGAGGATGCAGACGAGTTGCACAAAATTTTACTGGAGAAAAAGGA  
 TGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209975 protein sequence  
 Red=Cloning site Green=Tags(s)

MAKRNAEKELTDRNWDQEDEAEVGTFSMASEEVLKNRAIKKAKRRNVGFESDTGGAFKGFKGLVVPSSG  
 GRFSGFGSGAGGKPLEGLSNGNITSAPPFASAKAAAADPKVAFGSLAANGPTTLVDKVSNPKTNGDSQQP  
 SSSGLASSKACVGNAYHKQLAALNCSVRDWIVKHVNTNPLCDLTPIFKDYEKYLANIEQQHNGNSGRNSES  
 ESNKVAAETQSPSLFGSTKLQQUESTFLFHGNKTEDTPDKKMEVASEKKTDPSSLGATSASFNFGKKVDSS  
 VLGSLSSVPLTGFSFSPGNSSLFGKDTTQSKPVSSPFTKPLEGQAEGDSGECKGGDEEENDEPPKVVVT  
 EVKEEDAFYSKKCKLFYKKNDFKEKIGTLHLKPTANQKTQLLVRADTNLGNILLNVLIPPMPCTRTG  
 KNNVLIVCPNPPIDEKNATMPVTMLIRVKTSEDADELHKILLEKDA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6547\\_a09.zip](https://cdn.origene.com/chromatograms/mk6547_a09.zip)

**Restriction Sites:**

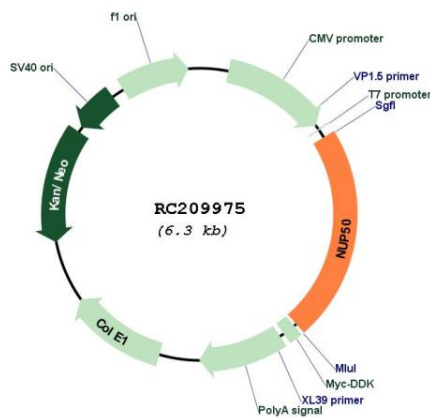
Sgfl-Mlul



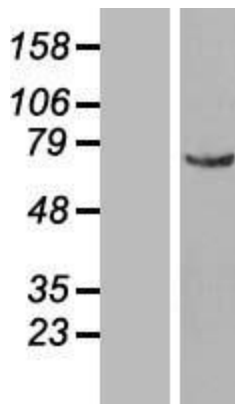
**Domains:** Ran\_BP1  
**Protein Families:** Stem cell - Pluripotency  
**MW:** 50.1 kDa

**Gene Summary:** The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. The protein encoded by this gene is a member of the FG-repeat containing nucleoporins that functions as a soluble cofactor in importin-alpha:beta-mediated nuclear protein import. Pseudogenes of this gene are found on chromosomes 5, 6, and 14. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

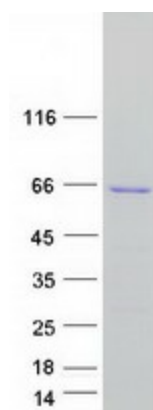
**Product images:**



Circular map for RC209975



Western blot validation of overexpression lysate (Cat# [LY416145]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209975 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUP50 protein (Cat# [TP309975]). The protein was produced from HEK293T cells transfected with NUP50 cDNA clone (Cat# RC209975) using MegaTran 2.0 (Cat# [TT210002]).