

## Product datasheet for **RG209975**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUP50 (NM_007172) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUP50
Synonyms:	NPAP60; NPAP60L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209975 representing NM\_007172  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCAAAAGAATGCCGAGAAGGAAGTACAGATAGGAATTGGGATCAAGAAGATGAAGCTGAAGAGG  
 TGGGAACATTCTCCATGGCCAGTGAGGAAGTCTTGAAGAATAGAGCCATAAAGAAAAGCAAAGCGCAGAAA  
 TGTGGATTTGAATCTGACACTGGAGGAGCCTTTAAAGTTTTAAAGTTTTGGTGTACCTTCTGGAGGA  
 GGACGCTTTTCTGGATTTGGTAGTGGCGCTGGAGGGAAGCCTTTGGAAGGACTGTCGAATGGAAACAACA  
 TAACCAGTGCCCTCCCTTCGCCAGTGCAAAGGCAGCGGCAGATCCCAAGGTAGCCTTTGGTTCTTTGC  
 TGCAAATGGCCCTACCACCTTGGTTGATAAAGTTTCAAATCCAAAATAATGGGGACAGTCAGCAGCCC  
 TCCTCCTCTGGCCTTGTCCAGTAAAGCTTGTGTGGAAATGCCTATCACAAGCAGTTGGCCGCTTGA  
 ACTGCTCCGTGCGGGATTGGATAGTGAAGCACGTGAATACAAACCCCTCTGTGATCTGACACCTATCTT  
 TAAAGACTATGAGAAATATTTAGCAAACATTGAACAGCAACACGGGAACAGTGGCAGGAATTCTGAAAGT  
 GAATCTAACAAAGTGGCAGCTGAAACACAGTCTCCTTCCCTTTTTGGCTCAACAAAATTACAGCAAGAGT  
 CAACGTTTTTGTTCATGGCAACAAAAGTGAAGATACACCTGACAAGAAGATGGAGTGGCATCTGAAAA  
 GAAAACGGACCCATCATCACTAGGAGCGACAAGTGCCTCATTTAATTTCCGCAAGAAAGTTGATAGCTCT  
 GTTTTGGGCTCATTAAAGCTCTGTCCCTGACTGGATTTTCTTTCTCCCTGGAAACTCCAGTTTATTTG  
 GCAAAGATACTACCCAGAGTAAACCAGTCTTCCACATTTCCCACTAAACCATTGGAGGGCCAAGCAGA  
 AGGTGACAGTGGTGAATGCAAAGTGGAGATGAAGAAGAGAATGATGAGCCACCCAAAGTAGTAGTTACC  
 GAAGTAAAAGAAGAAGATGCTTTTTACTCCAAAAGTGTAACTGTTTTACAAGAAAGACAATGAGTTTA  
 AAGAGAAAGGCATAGTACTCTGCATTTAAAACCTACAGCAAATCAGAAGACACAGCTTTTGGTGGGGG  
 AGACACCAATTTAGGCAACATATTGCTGAACGTTCTGATTCACCCAATATGCCATGTACGCGAACAGGG  
 AAGAATAACGTTCTTATCGTCTGTGTTCCAAATCCACCAATTGACGAGAAGAATGCCACCATGCCAGTCA  
 CCATGTTGATTCGGGTAAAAACAGCGAGGATGCAGACGAGTTGCACAAAATTTTACTGGAGAAAAAGGA  
 TGCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209975 representing NM\_007172  
 Red=Cloning site Green=Tags(s)

MAKRNAEKELTDRNWDQEDEAEVGTFSMASEEVLKNRAIKKAKRRNVGFESDTGGAFKGFKGLVVPSSG  
 GRFSGFGSGAGGKPLEGLSNGNITSAPPFASAKAAADPKVAFGSLAANGPTTLVDKVSNPKTNGDSQQP  
 SSSGLASSKACVGNAYHKQLAALNCSVRDWIVKHVNTNPLCDLTPIFKDYEKYLANIEQQHGNSSGRNSES  
 ESNKVAAETQSPSLFGSTKLQESTFLFHGNKTEDTPDKKMEVASEKKTDPSSLGATSASFNFGKKVDSS  
 VLGSLSSVPLTGFSPGNSSLFGKDTTQSKPVSSPFPKPLEGQAEGDSGECKGGDEEENDEPPKVVVT  
 EVKEEDAFYSKKCKLFYKKNDFEKEKIGTLHLKPTANQKTQLLVRADTNLGNILLNVLIPPMPCTRTG  
 KNNVLIVCVPNPPIDEKNATMPVMTLIRVKTSEDADELHKILLEKDA

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_007172

**ORF Size:** 1404 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\\_007172.4](#)

**RefSeq Size:** 5225 bp

**RefSeq ORF:** 1407 bp

**Locus ID:** 10762

**UniProt ID:** [Q9UKX7](#)

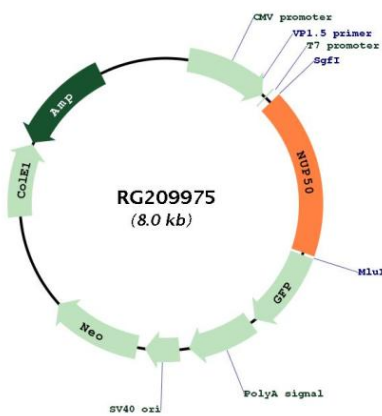
**Cytogenetics:** 22q13.31

**Domains:** Ran\_BP1

**Protein Families:** Stem cell - Pluripotency

**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 RG209975