

## Product datasheet for **SC105881**

### **NUP50 (AF267865) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUP50 (AF267865) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP50
Synonyms:	NPAP60; NPAP60L
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AF267865, the custom clone sequence may differ by one or more nucleotides

```
ATGTGGACTGAAATTTTCATCTTTGTTTGAGAATCTATGAAGTGATCATATACGTGGCCTAAAGCAAG
GTGTGATTTTGTATTCTGAAATTGTTTGCATCTGGACAAATACTAAATATCCCAGTGGCCTTTTTTT
TTTTTTTTAAACCTGTGTATCCATCTCATCTTTTGCGCATTCTAGTAAGCAAAAAATTTGTTATGC
CATCTTCATTATTGCAATTACAGACTGAAAAAATATGGCCAGTTTTTAAAGAAGTTTAGATTATGTTTT
CATGGAAGGACAAGTCTGACTGTTTCATAG
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for AF267865 unedited  
 TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGGCTTCCTTTTT  
 CCTAACATCCCAGCAAATTTTTGCTGCTAAGACTATCACTGTTAAAGTGAAAATTACAG  
 GGAAAAATGTGATGAATATACCGTAACTCAAATGTGATTTTTCTAAAATCACTCTTT  
 TATGCTTTAGGAAGTGGTTGGTCCACTTTGATTATTAGTGTAAAGAGCCTGAGTATAC  
 GTGGATTTTCATTGAAAATTTAACTCCTGTCTTTTACTTGGGGCACGGGGCCCTGGAG  
 GGCTTCCCTACTTTCCCACTATGTTAACAGGTAATTCTGATTTATGCCTTTAGTTTGAC  
 TTATTTTTAACAAAATATTAGAAGTTATGCTTTAAAATGTTTAAATGTGGACTGAAATTTT  
 CATCTTTTGTGAGAATCTATGAAGTGTATCATATACGTGGCCTAAAGCAAGGTGTGTA  
 TTTTGTATTCTGAAATGTTTTGCATCTGGACAAATACTAAATATCCCAGTGGCCTTTT  
 TTTTTTTTTTTAAACCTGTGTATCCATCTCATCTTTTGCGCATTCCTAGTAAGCAAAA  
 AAATTTGTATGCCATCTTCATTATTCGAATTACAGACTGAAAAAATATGGCCAGTTTTT  
 AAAGAAGTTTAGATTATGTTTTCCATGGAAGGACAAGTCTGACTGTTTCATAGGCTGATTT  
 TCTTTAAGAGGATTATTCTGTTNTACAATTTCAATTCTAGATCACATTTTATATATNGCT  
 GCATGCCAAAAAAAAAAAAAAAAACTCACTCTAGATTGCGGCCCGGCTCATAGCTTGTTC  
 TGAAGATNCCNNGGTGCATCCNTGTGACCCCTCCCATGCCTCTNCTGGCCTGNAAGTG  
 CACTNCATGCCACCANCTTGTCTATAAAATAAGTGCATCATT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AF267865 unedited  
 AGCTATGAACCGCGCCGCTATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCATGCA  
 GCATATAAAAAATGTGATCTAGAATTGAAATTGAAAACAGAATAATCCTCTTAAAGAAA  
 ATCAGCCTATGAACAGTCAGACTTGTCTTCCATGGAAAACATAATCTAACTTCTTTAA  
 AACTGGCCATATTTTTCAAGTCTGTAATTCGAATAATGAAGATGGCATAACAAAATTTT  
 TTGCTTACTAGGAATGCGCAAAAAGGATGAGATGGATACACAGGTTAAAAAAAAAAAAA  
 AAGGCCACTGGGATATTTAGTATTTGTCCAGATGCAAAACAATTCAGAAATAACAAAATA  
 CACACCTTGCTTTAGGCCACGTATATGATACACTTCATAGATTCTCAAACAAAAGATGAA  
 AATTTTCAGTCCACATTAACATTTTAAAGCATAACTTCTAATATTTTGTAAAAATAAGT  
 CAAACTAAAGGCATAAATCAGAATTACCTGTTAACATAGTGGGAAAGTAGGGAAGCCCT  
 CCAGGGGCCCCGTGCCCAAGTAAAAGACAAGGAGTTAAATTTTACAATGAAATCCACGT  
 ATACTCAGGCTCTTACACTAATAATCAAAGTGGAGACCAACCAGTTCCTAAAGCATAAA  
 AGAGTGATTTTAAAGAAAATATCACATTTTGGAGTTACGGTATATTATCACATTTTCCCT  
 GTAATTTTCACTTTAACAGTGATAGTCTTAGCAGCAAAAATTTGCTGGGAATGTTAGGAA  
 AAAAGGAAGCCACCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAA  
 TTCTGACGGTTCATAACGAGCTCTGCTTATATAGACCTNCCACCGTACACGCTTACG  
 NCCATTTGCGTCAACGGGGCGGGGTTATACGACATTTTGAAGTCCCGTTGATTTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

AF267865

**Insert Size:**

800 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [AF267865.1](#), [AAG44734.1](#)

**RefSeq Size:** 1485 bp

**RefSeq ORF:** 1485 bp

**Locus ID:** 10762

**Cytogenetics:** 22q13.31

**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]