

Product datasheet for **SC124316**

NUP50 (NM_153645) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP50 (NM_153645) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP50
Synonyms:	NPAP60; NPAP60L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153645, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAGTGAGGAAGTCTTGAAGAATAGAGCCATAAAGAAAGCAAAGCGCAGAAATGTTGGATTTGAAT
CTGACACTGGAGGAGCCTTTAAAGGTTTTAAAGGTTTGGTGGTACCTTCTGGAGGAGGACGCTTTTCTGG
ATTTGGTAGTGGCGCTGGAGGGAAGCCTTTGGAAGGACTGTGCAATGGAACAACATAACCAAGTGCCTT
CCCTTCGCCAGTGCAAAGGCAGCGGCAGATCCCAAGGTAGCCTTTGGTTCTTTGCTGCAAAATGGCCCTA
CCACCTTGGTTGATAAAGTTTTCAAATCCCAAACTAATGGGGACAGTCAGCAGCCCTCCTCTGGCCT
TGCTTCCAGTAAAGCTTGTGCGAAATGCCTATCACAAGCAGTTGGCCGCTTGAAGTGTCCGTGCGG
GATTGGATAGTGAAGCAGTGAATACAAACCCCTCTGTGATCTGACACCTATCTTTAAAGACTATGAGA
AATATTTAGCAAACATTGAACAGCAACACGGGAACAGTGGCAGGAATTCTGAAAGTGAATCTAACAAAGT
GGCAGCTGAAACACAGTCTCCTTCCCTTTTTGGCTCAACAAAATTACAGCAAGAGTCAACGTTTTTGT
CATGGCAACAAAAGTGAAGATACACCTGACAAGAAGATGGAGGTGGCATCTGAAAAGAAAACGGACCCAT
CATCACTAGGAGCGACAAGTGCCTCATTAAATTCGGCAAGAAAGTTGATAGCTCTGTTTTGGGCTCATT
AAGCTCTGTCCCCTGACTGGATTTTCTTCTCCCCTGGAACCTCCAGTTTATTTGGCAAAGATACTACC
CAGAGTAAACAGTCTCTTACCATTCCCCTAAACCTGGAGGGCCAAGCAGAAGGTGACAGTGGTG
AATGCAAAGGTGGAGATGAAGAAGAGAATGATGAGCCACCCAAAGTAGTATTACCGAAGTAAAAGAAGA
AGATGCTTTTTACTCAAAAGTGTAACTGTTTTACAAGAAAGACAATGAGTTTAAAGAGAAAGGCATA
GGTACTCTGCATTTAAACCTACAGCAAATCAGAAGACACAGCTTTTGGTGGGGCAGACACCAATTTAG
GCAACATATTGCTGAACGTTCTGATTCCACCAATATGCCATGTACGCGAACAGGGAAGAATAACGTTCT
TATCGTCTGTGTTCCAAATCCACCAATTGACGAGAAGAATGCCACCATGCCAGTACCATGTTGATTGCG
GTAAAAACCGAGGATGCAGACGAGTTGCACAAAATTTACTGGAGAAAAGGATGCCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_153645 unedited ACTCACTATAGGCGGCCGCGNAATTCGCACGAGACGGTTCGAAAACATGGCCAAAAGAAA GCCGAGAAGGAACTGACAGATAGGAATTGGGATCAAGAAGATGAAGCTGAAGAGGTGGGA ACATTCTCCATGGCCAGTGAGGAAGTCTTGAAGAATAGAGCCATAAAGAAAGCAAAGCGC AGAAATGTTGGATTTGAATCTGACACTGGAGGAGCCTTTAAAGGTTTTAAAGTTTTGGTG GTACCTTCTGGAGGAGGACGCTTTTCTGGATTTGGTAGTGGCGCTGGAGGGAAGCCTTTG GAAGGACTGTGCAATGGAAACAACATAACCAAGTGCCCTCCCTTCGCCAGTGCAAAGGCA GCGGCAGATCCCAAGGTAGCCTTTGGTTCTTTGCTGCAAAATGGCCCTACCACCTTGTT GATAAAGTTTTCAATCCCAAAACTAATGGGGACAGTCAGCAGCCCTCCTCCTCTGGCCTT GCTTCCAGTAAAGCTTGTGTCGGAAATGCCTATCACAAGCAGTTGGCCGCTTGAAGTGC TCCGTGCGGGATTGGATAGTGAAGCACGTGAATACAAACCCCTCTGTGATCTGACACCT ATCTTTANAGACTATGAGAAATATTTAGCAAACATTGAACAGCAACACGGGGAACAGTGG CAGGAATTCTGGAAAGTGAATCTAACAAAGTGGCAGCTGAAACACAGTCTCCTTTCCTTT TTGGCTCAACAAATTACAGCAGAGTCAACGTTTTTGGTTTCATGGCAACAAACTGGAGAAT CACCTGACAGAAGATGGAGGGGGCTCTGAAAAGAAACGGCCCATCATACTAGGACCGAAC AGGCCTCATTTAATTCGAAGAAATT
Restriction Sites:	NotI-NotI
ACCN:	NM_153645
Insert Size:	5000 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:	<ol style="list-style-type: none"> 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_153645.1 , NP_705931.1
RefSeq Size:	5051 bp
RefSeq ORF:	1323 bp
Locus ID:	10762
UniProt ID:	Q9UKX7
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]
Transcript Variant: This variant (3) differs in the 5' UTR and coding region compared to variant 2. The resulting isoform (a) is shorter at the N-terminus compared to isoform b.