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Product datasheet for SC110197

NUP50 (NM_007172) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP50 (NM_007172) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP50
Synonyms:	NPAP60; NPAP60L
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC110197 sequence for NM_007172 edited (data generated by NextGen Sequencing)

ATGGCCAAAAGAAATGCCGAGAAGGAACTGACAGATAGGAATTGGGATCAAGAAGATGAA
GCTGAAGAGGTGGGAACATTCTCCATGGCCAGTGAGGAAGTCTTGAAGAATAGAGCCATA
AAGAAAGCAAAGCGCAGAAATGTTGGATTTGAATCTGACACTGGAGGAGCCTTTAAAGGT
TTTAAAGGTTTGGTGGTACCTTCTGGAGGAGGACGCTTTTCTGGATTTGGTAGTGGCGCT
GGAGGGAAGCCTTTGGAAGGACTGTCGAATGGAAACAACATAACCAGTGCCCCTCCCTTC
GCCAGTGCAAAGGCAGCGGCAGATCCCAAGGTAGCCTTTGGTTCTCTTGCTGCAAATGGC
CCTACCACCTTGGTTGATAAAGTTTCAAATCCCAAAACTAATGGGGACAGTCAGCAGCCC
TCCTCCTCTGGCCTTGCTTCCAGTAAAGCTTGTGTCGGAAATGCCTATCACAAGCAGTTG
GCCGCCTTGAACTGCTCCGTGCGGGATTGGATAGTGAAGCACGTGAATACAAACCCCCTC
TGTGATCTGACACCTATCTTTAAAGACTATGAGAAATATTTAGCAAACATTGAACAGCAA
CACGGGAACAGTGGCAGGAATTCTGAAAGTGAATCTAACAAAGTGGCAGCTGAAACACAG
TCTCCTTCCCTTTTTGGCTCAACAAAATTACAGCAAGAGTCAACGTTTTTGTTTCATGGC
AACAAAACTGAAGATACACCTGACAAGAAGATGGAGGTGGCATCTGAAAAGAAAACGGAC
CCATCATCACTAGGAGCGACAAGTGCCTCATTTAATTTCGGCAAGAAAGTTGATAGCTCT
GTTTTGGGCTCATTAAGCTCTGTCCCCCTGACTGGATTTTCTTTCTCCCCTGGAAACTCC
AGTTTATTTGGCAAAGATACTACCCAGAGTAAACCAGTCTCTTCACCATTTCCCACTAAA
CCATTGGAGGGCCAAGCAGAAGGTGACAGTGGTGAATGCAAAGGTGGAGATGAAGAAGAG
AATGATGAGCCACCCAAAGTAGTAGTTACCGAAGTAAAAGAAGAAGACGCTTTTTACTCC
AAAAAGTGTAAACTGTTTTACAAGAAAGACAATGAGTTTAAAGAGAAAGGCATAGGTACT
CTGCATTTAAAACCTACAGCAAATCAGAAGACACAGCTTTTGGTGCGGGCAGACACCAAT
TTAGGCAACATATTGCTGAACGTTCTGATTCCACCCAATATGCCATGTACGCGAACAGGG
AAGAATAACGTTCTTATCGTCTGTGTTCCAAATCCACCAATTGACGAGAAGAATGCCACC
ATGCCAGTCACCATGTTGATTCGGGTAAAAACCAGCGAGGATGCAGACGAGTTGCACAAA
ATTTTACTGGAGAAAAAGGATGCCTGA

Clone variation with respect to NM_007172.3
1068 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007172 unedited

TTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCTCGTGCCGAATTC
GGCACGAGGGGAGTGTGTTCGGCGCGGTTCCCCCAGCTGTCTCTGGCTGAACCGGCGCTC
TCGCCTCCCTGCCGAACACAGCGTGAGGAGCCCCCCCAGGGACATGGTGTTTGAGTCTCT
GGGCTTGCCGAGCACTAAGTCCTCTGAGTTCCGCAGCGCAGCACCGGAAGCGGCCGAGCG
CGCTCAGCCCGGCGACCCCTGCGGGCTCCAGACCCCTGCGCCGCTGCGCCCCGGGTTTCG
CCGCAACCAAGACCCAGCGAGTGCAGCGGCGGCCGCCGAGGAGATGGAGTCTTGCTCTGT
CACATAGGCTGGAGTGCATTGGCGCGATCTCAGCTCACTGCAACCTCCACCTCCTGGGTT
CAAGAGATTCTCCTGCCTCAGCCTCCGGAGTAGCTGGGATTACAGGTTCGAAAACATGGC
CAAAAGAAATGCCGAGAAGGAACTGACAGATAGGAATTGGGATCAAGAAGATGAAGCTGA
AGAGGTGGGAACATTCTCCATGGCCAGGNANGGAAGTCTTGAAGAATAGAGCCATAAAGA
AAGCAAAGCGCAGAAATGGTTGGATTTGAATCTGACACTGGAGGAGCCTTTTAAGGTTTA
AAGGGTTTTGGTGGTACCTTCTGGAGGAGGACGCTTTTCTGGNATTTGGTANGGGCGCTG
GAAGGGAAGCCTTTGGAAAGACTGGTCGAATGGAAACAACTTACCAGTGCCCCTCCCTTC
GNCAGTGCAAGCAGCGGCAGATCCCAGGANCCCTTTGGGTTTTCTGCTGAAATGCCCTCA
CCCTTGGTGGGAAAAGTTTCAATCCCAACTATGGGGGCAGTCAGCAGCCTCTCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007172 unedited
TTCTGGCTTTTTACTGTTTCCTAGTGATTCACACGGCTCGTGTGTCAAAGCTCCCAGGCA
CGTCACTTGGTCACAGTTTTCATGTGCGTGGGGTTGATCATGGTACAAATGCCTATGCGC
ATCTTTTTCTCGGATGGTCTCATTTGACTTTCATTTCGTAAGGGTTCACTCTCCATGGTG
TAGATGATAAGCTACCACATTTGTGCTTTTAAACCCATTCCTGGCAATCCCCCTTTATCT
TCATTTTGTCTTTAGGGGGATAAAGAAGTAACACTACCTCATGAATAGAAACTATGAAGC
CAAAAAACTCCTTCACAAGCTGTTCATTTCTTTTTAGAATGAAAATGCAGGTCCTGAATT
CTCGTGAAGCAGCCCACAGGGTTACAGGCCAATGATTCGAACGCTGAGGTGAACACTTAG
TACTCGCATTTGAGCTTCAAAGTAAAAATAAAGCAGAGGACAAACGCCTGTCACAGCGTG
GCAGCCCGGTTCATTTGGTAACAGAACAAGTCTCACACGTCGGCTGAGCCCACCGGAGAG
AAGCACACAGGCCAGCTTCCTTCTGAACACAGCCAGGCACCTGTTCAAAAGCCTCTCTGG
TGGTGGCGGTGGACCCCAAAACCCACGGGTTGGAAGAGCCTTTGGGAAAGCAAATTGATA
CCCTGATTGCAGTCCTTGAAGATAATCACTTAGGTTAGTTTAATAAACGAACATTAAAAA
ATCTTCCANAAATTGCATTCAAATGTATNNTACACTNNTAGGCAGTTCTTAAGATGGGAG
AGTGCAGTTTCTTGACACTTACATTTAAAGGTTTTATTGGCCCATTAATCTCCTCACAAA
AGTTTAAGTATCTATAAGTCTTAAATGTCAAGAANAGAGAAAACTGCTAAGGGGCGTGGA
GCANCACACTGGCATATTTGCANCGACTTGCTGTCCAGCTCCCTTTTCTCATAAATTGGG
CA

Restriction Sites: NotI-NotI

ACCN: NM_007172

Insert Size: 2900 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: NM_007172.2, NP_009103.2

RefSeq Size: 2054 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] Transcript Variant: This variant (2) represents the longer transcript and encodes the longer isoform (b).