

Product datasheet for SC109500

NUP98 (NM_139131) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP98 (NM_139131) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP98
Synonyms:	ADIR2; NUP96; Nup98-96; NUP196
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109500 sequence for NM_139131 edited (data generated by NextGen Sequencing) <pre> ATGTTTAAACAAATCATTTGGAACACCCCTTTGGGGGTGGCAGAGTGGCTTTGGCACAAC TCAACATTTGGACAGAATACTGGCTTTGGCACTACTAGTGGAGGGGCATTTGGAACATCT GCATTTGGTTCTAGCAACAATACTGGAGGCCTCTTTGGAATTCACAGACTAAACCAGGA GGATTGTTTGAACCAAGTTCATTTAGCCAGCCAGCTACCTCCACAAGCACTGGCTTTGGG TTTGGTACGTCAACAGGAACAGCAAATACCTTGTGGTGGAACTGCAAGCACAGGGACCACT CTCTTCTCATCCAAAACAATGCCTTTGCACAAAATAAACCAACTGGCTTTGGCAATTTT GGAACCACTAGTACAGTGGAGGACTCTTTGGAACCAACAATACCACTCTAATCCTTTT GGCAGCACATCTGGCTCCCTCTTTGGGCAAGTAGTTTTACAGCTGCTCCTACTGGGACT ACTATTAATTTAACCTCCAAGTGGTACAGATACTATGGTCAAAGCTGGAGTTAGCACT AACATAAGTACCAAGCACCAAGTGTATTACTGCTATGAAAGAATATGAAAGCAAGTCACTA GAGGAACCTTCGTTTAGAGGATTATCAGGCTAACAGGAAGGGCCACAGAACCAAGTGGGA GCAGGTACCACAACCTGGCTTGTGGGTCTTCTCCAGCCACTTCCAGCGCAACAGGACTC TTCAGCTCCTCCACCACTAATTCAGGCTTTGCATATGGTCAGAACAAAACCTGCCTTTGGA ACTAGTACAACCTGGATTGGAACAAATCCAGGTGGTCTCTTTGGCCAACAGAATCAGCAG ACTACCAGCCTCTTCAGCAAAACCATTTGGCCAGGCTACAACCAACCAACCACTGGCTTT TCCTTTGGTAATACCAGCACCATAGGACAGCCAAGCACCAACCAACCACTGGGATTATTTGA GTAACCAAGCCTCACAGCCTGGAGGTCTTTTGGGACAGCTACAAACCAACCACTGGG ACAGCATTTGGAACAGGAACAGGTCTCTTTGGGACAGCAATACTGGATTGGTGTCTGTT GGTTCGACCTGTTTGGCAATAACAAGCTTACTACATTTGGAAGCAGCACAACCAAGTGC CCTTCATTTGGTACAACCAAGTGGCGGCGNNNTTGGTTTTGGCACAATAACCAAGTGGGA AGTATTTTGGAGTAACCAAGCACCTGGGACTCTTGGAACTGGGCTTGGTGCAGGATTT GGAACAGCTCTTGGTGTGGACAGGCATCTTTGTTTGGGAACAACCAACCTAAGATTGGA GGGCTCTTGGTACAGGAGCCTTTGGGGCCCTGGATTTAATACTACGACAGCCACTTTG GGCTTTGGAGCCCCCAGGCCCCAGTAGCTTTGACAGATCCAAATGCTTCTGCTGCCAG CAGGCTGTCTCCAGCAGCACATCAATAGTCTAACATACTCACCTTTTGGAGACTCTCT</pre>



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CTCTTCCGGAATCCGATGTCAGACCCTAAGAAGAAGGAAGAGAGATTGAAACCAACAAAT
CCAGCAGCCCAGAAGGCTCTTACTACACCTACTCATTATAAACTGACACCCGCCCTGCC
ACTAGAGTCCGGCCAAAGGCTTTACAAACAACAGGCACAGCCAAGTCACATCTCTTTGAT
GGGCTGGATGACGATGAACCATCCCTAGCCAATGGAGCATTTCATGCCAAGAAGAGCATT
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TTGCAGATGGCTCTTAATGGCAAACCTGCACCTCCACCTCAGGTAGAGAAAAAAGGACAG
TGA

Clone variation with respect to NM_139131.3
1169 t=>n;1170 c=>n;1171 t=>n

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_139131 unedited
GTTTCAGATTTGTATACGACTCATATAGGCGCNCGCGAATTCGCACGAGGGCGCTGCGCC
CGAAGCGGCGGTGCGTGGCAGGGGTGGTAGCGGCGGCGGACGGTTTCGTGGGGGCCGC
GCGCTGCTCTGTGAGCGGCGGTGGCAGCAGGGGACTCCTGACACTTCCCCTTCCCACC
GAACCGCGCTTTCTGAAACAAAGACTCATTTTGAAGATGTTTAAACAAATCATTTGGAACA
CCCTTTGGGGGTGGCACAGGTGGCTTTGGCACAACCTTCAACATTTGGACAGAATACTGGC
TTTGGCACTACTAGTGGAGGGGCATTTGGAACATCTGCATTTGGTTCTAGCAACAATACT
GGAGGCCCTCTTTGGAATTCACAGACTAAACCAGGAGGATTGTTTGAACCAAGTTCATTT
AGCCAGCCAGCTACCTCCACAAGCACTGGCTTTGGGTTTGGTACGTCAACAGGAACAGCA
AATACCTTGTGTTGGAAGTCAAGCACAGGGACCAGTCTCTTCTCATCCCAAAACAATGCC
TTTGCACAAAATAAACCAACTGGCTTTGGCAATTTTGAACCAAGTACTAGCAGTGGAGGA
CTCTTTGGAACCAAAATACCACCTCTAATCCTTTTGGCAGCAGTCTGGCTCCCTCTTT
GGGCCAAGTAGTTTACAGCTGCTCCTACTGGGACTACTATTAATTTAACCCCTCCAAC
GGTACAGATACTATGGTCAAAGCTGGAGTTAGCACTAACATAAGTACCAAGCACCAGTGT
ATTACTGCTATGAAAGAATATGNAAGCAGTCACTAGAGGAACCTTCGTTNAGAGGATTA
TCAGGCTAACAGGAAGGGCCACAGAACCANNGTGGGAGCAGTACCACACTGGCGTGTTN
NNGGTCTCTCCCACTTCAGCG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_139131 unedited <pre> NCCTTTTAGGAATATTTATAATCATAAAAACACACATTTTCAGCAGCCATAAAAATTAT AGCATGGGAAAATACCAAAGGTCTAGCTTTTCAGCAGCTGAGAGGTAGAGGATGCTTTACA AAGAAATCCCGTATCAATGATACAAGTAATTGCGATAAACAATGTAGGCCCTAATCTCCC CAAGCCAAATAATAATTCATTTACATTCCTCAAACTATTTTTCATAAAGATTATGTACTAT TAAATACAAATATCAAGGTTACCCGAAGTATAAGCAAACAACCTTAAAAAATGGAGAT TAAACCCCTTTTCAGAAAGCTAATTTAACTTTTAAAAAACCATGGAGGTAAGAAAAAGA TTAAACTGCACATCAGGTAGTCAATAAAGGCAGAATTTACTGTGCATGAACCCACATGAG CAAATCTTAAGTTAATCACTGAGCAGAGAATTCAGCAAGTCCAAATGAGAGAGAACAAAG GGTTTAAAAATGACAATCTGTAGAGGAATAATCCAAACAGCAAGAGAATCTTTAAATCT CTCCAGTAAAAAGACAGATGCCTGCAAGACCTCACGCCCTCCCTTGCACTTGTTTCAACG TGATTGCCAATGTTTGTACTCTTCAAAGTTCCAAGGGTCATAAACAGCTTTGTATTAGC TGAATGACTTGCTTTCACTTCGGTATCACGGATTCCATTCAAATTCAGTGTCTTTTTT CTCTACCCTGAGTGGAGGTGCAGGTTTGCCATTAAGAGCCATCTGCANAGGCGTAGTCTG GCTTGCAGGAGGCAAAGGAGCAGTCTTCACTTCTTGTACTAGNTTTAGACGGATGCTCC TCTCCTCTTCATCAGAACTCTGAAGGCCATACTTAGAAAAATGGGAGACCTTNAACACC CAGAACCAGTTTCAGGGCCGTATCCTTGAATC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_139131
Insert Size:	3460 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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:	<u>NM_139131.2, NP_624357.1</u>
RefSeq Size:	3778 bp

RefSeq ORF: 2763 bp

Locus ID: 4928

UniProt ID: [P52948](#)

Cytogenetics: 11p15.4

Protein Families: Druggable Genome

Gene Summary: Nuclear pore complexes (NPCs) regulate the transport of macromolecules between the nucleus and cytoplasm, and are composed of many polypeptide subunits, many of which belong to the nucleoporin family. This gene belongs to the nucleoporin gene family and encodes a 186 kDa precursor protein that undergoes autoproteolytic cleavage to generate a 98 kDa nucleoporin and 96 kDa nucleoporin. The 98 kDa nucleoporin contains a Gly-Leu-Phe-Gly (GLGF) repeat domain and participates in many cellular processes, including nuclear import, nuclear export, mitotic progression, and regulation of gene expression. The 96 kDa nucleoporin is a scaffold component of the NPC. Proteolytic cleavage is important for targeting of the proteins to the NPC. Translocations between this gene and many other partner genes have been observed in different leukemias. Rearrangements typically result in chimeras with the N-terminal GLGF domain of this gene to the C-terminus of the partner gene. Alternative splicing results in multiple transcript variants encoding different isoforms, at least two of which are proteolytically processed. Some variants lack the region that encodes the 96 kDa nucleoporin. [provided by RefSeq, Feb 2016]

Transcript Variant: This variant (2) lacks multiple exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.