

Product datasheet for **SC127839**

NUP98 (NM_005387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP98 (NM_005387) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP98
Synonyms:	ADIR2; NUP96; Nup98-96; NUP196
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005387, the custom clone sequence may differ by one or more nucleotides

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ATGTTTAAACAAATCATTGGAACACCCTTTGGGGTGGCACAGGTGGCTTTGGCACAACCTCAACATTTG
GACAGAATACTGGCTTTGGCACTACTAGTGGAGGGGCATTTGGAACATCTGCATTTGGTTCTAGCAACAA
TACTGGAGGCCTCTTTGAAAATTCACAGACTAAACCAGGAGGATTGTTTGAACCACTTCATTTAGCCAG
CCAGCTACCTCCACAAGCACTGGCTTTGGTGGTACGTCAACAGGAACAGCAAATACCTGTTTGGAA
CTGCAAGCACAGGGACCACTCTCTTCTCATCCCAAAACAATGCCTTTGCACAAAAATAAACCAACTGGCTT
TGGCAATTTTGAACCACTACTAGCAGTGGAGGACTCTTTGGAACCACAAATACCACCTCTAATCCTTTT
GGCAGCACATCTGGCTCCCTCTTTGGGCAAGTAGTTTTACAGCTGCTCTACTGGGACTACTATTAAT
TTAACCTCCAACCTGGTACAGATACTATGGTCAAAGCTGGAGTTAGCACTAACATAAGTACCAAGCACCA
GTGTATTACTGCTATGAAAGAATATGAAAGCAAGTCACTAGAGGAACCTCGTTTAGAGGATTATCAGGCT
AACAGGAAGGGCCACAGAACCAGGTGGGAGCAGTACCACAACCTGGCTTGTGGGTCTTCCAGCCA
CTTCCAGCGCAACAGGACTCTTCCAGCTCCTCCACCACTAATTCAGGCTTGCATATGGTCAAGCAAAAC
TGCTTTTGAACCTAGTACAACCTGGATTTGGAACAAATCCAGGTGGTCTCTTTGGCCAACAGAATCAGCAG
ACTACCAGCCTCTTCCAGCAAACCTTTGGCCAGGCTACAACCACCCAGAACACTGGCTTTTCTTTGGTA
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TGGAGGCTTTTTGGGACAGCTACAACACCAGCACTGGGACAGCATTGGAACAGGAACAGGTCTCTTT
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GACAGGCATCTTTGTTTGGGAACAACCAACCTAAGATTGGAGGGCTCTTGGTACAGGAGCCTTTGGGGC
CCCTGGATTTAATACTACGACAGCCACTTTGGGCTTTGGAGCCCCCAGGCCCCAGTAGCTTTGACAGAT
CCAAATGCTTCTGCTGCCAGCAGGCTGTTCTCCAGCAGCACATCAATAGTCTAACATACTCACCTTTTG
GAGACTCTCTCTCTCCGGAATCCGATGTCAGACCCTAAGAAGAAGGAAGAGAGATTGAAACCAACAAA
TCCAGCAGCCCAGAAGGCTTACTACACCTACTCATTATAAACTGACACCCCGCCTGCCACTAGAGTC
CGGCCAAAGGCTTTACAACAACAGGCACAGCCAAGTCAATCTCTTTGATGGGCTGGATGACGATGAAC
CATCCCTAGCCAATGGAGCATTGATGCCAAGAAGAGCATTAAAGAAGTTGGTTTTGAAGAACCTTAATAA
TAGCAATCTCTTTCTCCTGTTAATCGTGATTCAGAAAATCTAGCTTACCATCTGAATATCCAGAAAAT
GGAGAGAGATTTAGTTTCCCTAAGCAAACCTGTTGATGAGAATCACCAGCAGGATGGAGATGAAGATCCC
TTGTTTACATTTTTATACTAACCCTATTGCCAAACCTATTCTCAAACCCAGAAAAGTGTGGAATAA
ACACAGCAACAGCAACAGTGTGGATGATACCATGTTGCATTAACATGCGTGTCTTTGCGAAATGGG
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GGTTATGGTTCAATCTATTTTGAAGGAGATGTGAATTTGACAAAATCTAAATTTGGATGATATTGTGCATA
TCCGGAGGAAAGAAGTAGTTGTCTACTTAGATGATAACCAAAAACCACTGTGGGTGAAGGGCTAAATAG
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GATCGCCTTGCTGATATCAACTATGAAGGAAGATTGGAAGCAGTTTCAAGGAAACAGGGAGCTCAATTCA
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TTCTGATGAAGAGGAGGAGGAGCATCCGTCTAAAACCTAGTACAAAGAAGTTGAAGACTGCTCCTTTGCC
CCTGCAAGCCAGACTACGCCCTTGAGATGGCTCTTAATGGCAAACCTGCACCTCCACCTCAGGTAGAGA
AAAAAGGACAGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005387 unedited GGGTGCACGATATTTGTNAATCCGNATTTCACTATAGGNCGGCACGCGCAATTCGGCACG AGGCGCGCTGCGCCGAACGGCGGTCCGTGGCAGGGTGGTAGCGGCGGCGGACGGTT TCGTGGGGCCGCGCGCTGCTCTGTGAGCGGCGGGTGGCAGCAGGGGACTCCTGACACTT CCCCTTCCCACCGAACCGCGCTTTCTGAAACAAATTTANNTGAAGATGTTTAAACA ATCATTGGAACACCCCTTTGGGGTGGCACAGGTGGCTTTGGCACAACCTCAACATTTGG ACAGAATACTGGCTTTGGCACTACTAGTGAGGGGCATTTGGAACATCTGCATTTGGTTC TAGCAACAATACTGGAGGCCTTTGGAAATTCACAGACTAAACCAGGAGGATTGTTGG AACCAAGTTCATTTAGCCAGCCAGCTACCTCCACAAGCACTGGCTTTGGGTTTGGTACGTC AACAGGAACAGCAAATACCTTGTGGAACTGCAAGCACAGGGACCAGTCTCTTCTCATC CCAAAACAATGCTTTGCACAAAATAAACCAACTGGCTTTGGCAATTTTGGAAACCAGTAC TAGCAGTGGAGGACTCTTTGGGACCACAAATACCACCTCTAATCCTTTTGGCAGCACATC TGGCTCCCTCTTTGGCCAAGTAGTTTTACAGCTGCTCCTACTGGGACTACTATTAATT AAACCCTCCCACTGGTACAGATACTATGGTCAAAGCTGGAGTTAGCCCTAACATTAGTTC CAAGCACCAATGTTTTACTGCTTGGAAGAAAATGAAAAGCAGTCACTAGAAGAACTTCG TTTAAAGGATATTAGGCTTACAGGAAGGCCCCCAAAACCGGTGGGGACAGGTCCCAAAC CGGTTGGTTGGTCTTCTCCACCACTTCCAAGC
Restriction Sites:	NotI-NotI
ACCN:	NM_005387
Insert Size:	4000 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_005387.4 , NP_005378.4
RefSeq Size:	3829 bp
RefSeq ORF:	2814 bp
Locus ID:	4928
UniProt ID:	P52948
Cytogenetics:	11p15.4
Domains:	Nucleoporin_FG, Nucleoporin2
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 (3) uses an alternate in-frame splice site in the 5' coding region, 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) has an additional internal segment and a shorter and distinct C-terminus, compared to isoform 1. This isoform (3) may undergo proteolytic processing similar to that of isoform 2.