

## Product datasheet for MC223873

### Nup98 (NM\_022979) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nup98 (NM\_022979) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nup98  
**Synonyms:** 4732457F17; A1849286; Nup96  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223873 representing NM\_022979  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTTAAACAAATCATTGGAACCCCTTTGGGGGTAGTACAGGGGGCTTTGGCACAACGTCAACATTTG  
 GGCAAAATACTGGCTTTGGTACGACTAGTGGAGGAGCATTGGAACATCTGCATTTGGTTCTAGCAACAA  
 TACTGGAGGCTTATTTGAAATTCACAGACCAAACAGGAGGATTATTTGGTACCACTTCAATTTAGCCAG  
 CCAGCAACCTCCACAAGCACTGGGTTTGGGTTTGGCACATCAACAGGAACATCAAATAGCTTATTTGGAA  
 CTGCAAGTACCGGACCAGTCTTTTCTCATCCCAGAACAATGCATTTGCACAAAAATAACCAACTGGCTT  
 TGGGAATTTTGGAAACAGTACTAGCAGTGGAGGACTCTTTGGAATAACAATACCACCTCTAATCCTTTT  
 GGTAGCACATCTGGCTCCCTTTTGGGCCAAGTAGTTTTACAGCAGCACCTACAGGAACTACCATCAAAT  
 TTAATCCTCCCACTGGTACAGATACTATGGTCAAAGCTGGAGTTAGCACTAACATCAGTACAAAGCATCA  
 GTGTATTACTGCTATGAAAGAATATGAAAGCAAGTCATTAGAGGAACTACGTTTGGAGGATTATCAGGCT  
 AACCGAAAGGCCACAGAACCAAGTGGGAGGAGCACCCAGGCTGGCTTATTTGGGCTTCTCCAGCAA  
 CTTCCAGTGAACAGGGCTCTTCAGCTCCTCCACCACTAATTCAGCCTTTTCATATGGTCGAACAAAAAC  
 TGCTTTTGGAACTAGCACAACTGGATTTGGAACAAATCCAGGTGGTCTCTTTGGCCAACAGAATCAACAG  
 ACTACCAGTCTCTTCAGCAAACCAATTTGGCCAGGCTACAACCACCCGAATACTGGCTTTTCTTTGGTA  
 ATACCAGCACCTTGGACAGCCAAGCACCAATACTATGGGCTATTTGGAGTAACCAAGCCTCACAAACC  
 AGGAGGTCTTTTGGGACAGCTACAAACACCAGCACTGGGACAGCATTGGGACAGGAACAGGTCTCTTT  
 GGGCAGCCCAATACTGGATTTGGTGCAGTTGGTTCGACCTGTTTGGCAATAACAAGCTTACAACTTTTG  
 GAACCAGCACAAACAGTCTCTTCAATTTGGTACAACAGTGGCGGGCTCTTCGTAACAAACCAACCTT  
 GACTTTAGGAACCAATACAAACACTTCCAATTTTGGGTTTGGCACAATAACAGTGGGAGCAGTATTTTT  
 GGAAGTAAGCCAGCAGCTGGAACCTTTGGAACTGGACTTGGTACAGGATTTGGAACAGCTCTTGGTCTG  
 GACAGGCATCTTTGTTTGGAAACAACCAACCTAAGATTGGAGGGCTCTTGGTACAGGAGCCTTTGGGGC  
 CCTGGATTTAATACTTCGACAGCCATTTTGGGCTTTGGCGCCCCCAGGCCCCAGTAGCTTTGACAGAT  
 CCAATGCTTCTGCTGCCAGCAGGCTGTTCTCCAGCAGCACCTCAATAGCCTAACATACTACCCTTTG



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GAGACTCCCCCTCTCCGGAATCCTATGTCAGATCCTAAGAAGAAAGAAGAGAGACTGAAACCAACCAA  
 TCCAGTGCTCAGAAAGCTCTTACAACACCTACTCATTATAAACTTACACCTCGCCCTGCTACCAGAGTC  
 AGGCCAAAGGCTTTGCAAACAACAGGCACAGCCAAATCACATCTCTTTGATGGGCTGGATGACGATGAAC  
 CATCTAGCCACGGAGCATTACATGCCTAAAAAGAGCATCAAGAAGTTGGTTTTGAAAAATCTCAACAA  
 TAGCAATCTCTTTCTCCTGTTAATCATGATTGAGAAGATCTAGCTTACCCTCTGAGTATCCAGAAAAAT  
 GGAGAAAAGATTTAGCTTCTGAGCAAACCTGTTGATGAGAACAATCAGCAGGATGGAGAAGATGACTCTC  
 TTGTATACGATTTTACACTAATCCTATTGCCAAACCCATTGCCAAACTCCAGAGAGTGTGGAAACAA  
 AAATAACAGTAGCAGCAATGTGGAAGATACCATTGTTGCCTTGAACATGGGTGCTGCTTTGCGCAATGGA  
 TTGGAAGGAAGCAGTGAAGAGACGTCATTCCATGATGAGTCATTGCAAGATGACCAGAGAAGATAGAAA  
 ATAATGCTTACCACATACACCCAGCAGGCATTGTTCTCACAAAAGTTGGTTATTACACTATCCCATCTAT  
 GGATGACCTTGCTAAAATTACCAACGAGAAGGGAGAATGCATTGTTTCTGACTTCACCATTGGTCGTAAA  
 GGATATGGCTCAATCTATTTTGAAGGAGATGTGAATTTGACAAATCTAAATTTGGATGATATTGTGCATA  
 TCCGAAGGAAAGAAGTTATTGTCTATGTAGATGATAACCAAAAAGCCACCTGTGGGTGAAGGGCTAAATAG  
 GAAGGCTGAAGTTACTTTGGATGGAGTTTGGCCAACAGATAAAAACATCCCGGTGTTTAATAAAGAGTCCA  
 GATCGACTTGCTGATATCAACTATGAGGGGAGATTAGAAGCAGTCTCAAGAAAGCAAGGGGCCAAATTCA  
 AGGAGTATCGGCCTGAAACTGGTCTTGGGTATTTAAGGTCTCCATTTTTCCAAGTATGGCCTTCAGGA  
 TTCTGATGAAGAGGAGGAGGAACACCCACCCAAAACGACTTCAAAGAAGCTGAAGACTGCCCTTTGCC  
 CCTGCAGGCCAGGCAACCACTTTCCAGATGACTCTTAATGGCAAGCCTGCACCCCACTCAGAGCCAGA  
 GCCCAGAAGTGGAGCAGTTAGGCAGGGTTGTGGAAGTGGACAGCGACATGGTAGATATCACCCAGGAGCC  
 AGTTCAGATTCTGTGTTAGAAGAGAGTGTGCCGAGGATCAGGAGCCTGTGTCTGCTTCAACGCATATT  
 GCATCTTCACTGGGAATTAATCCACATGTTTTACAGATCATGAAAGCATCATTGCTTGTGACGAAGAAG  
 ATGTAGATGCCATGGATCAACGCTTTGGTCACATCCCTTCAAAGGAGAGACTGTCCAGGAAATCTGTTC  
 TCCTAGACTCCCATTTACGCTCCACATCAAAAATCCCGCTCCATAGTTGGTGGGTTGCTGCAATCA  
 AAATTTGCAAGTGGAACTTTTCTTTACCAAGTGCCTCCGTGCAAGAATGTCGCACTCCCAGGACATCAT  
 CTCGATGAACATCCCATCCACATCCCCCTGGTCTGTCCCTCTGCCCTGGCCACTGTGTTACAGTGCC  
 CAGCCCAGCCCCTGAGGTTCAGCTAAAAACAGTGGGGATACGAAGGCAACCAGGCCTAGTCCCTCTTGAA  
 AAATCCATTACATATGGCAAGGGGAAGCTTGTATGGACATGGCCCTATTCATGGGACGTTCAATTCGGG  
 TTGTTGGGGTCCCAACTGGACTCTTGCTAATAGTGGAGAACAATGCATGGCTCCCATGAACTGGAAAA  
 TCATCAGGTTGCCGATTCTATGGAATATGGATTCTGCCCAATCCAGTAGCTGTTAAATCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_022979
- Insert Size:** 3564 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\\_022979.2](#), [NP\\_075355.1](#)

**RefSeq Size:** 4137 bp

**RefSeq ORF:** 3564 bp

**Locus ID:** 269966

**UniProt ID:** [Q6PFD9](#)

**Cytogenetics:** 7 54.71 cM

**Gene Summary:** Plays a role in the nuclear pore complex (NPC) assembly and/or maintenance. NUP98 and NUP96 are involved in the bidirectional transport across the NPC. May anchor NUP153 and TPR to the NPC. In cooperation with DHX9, plays a role in transcription and alternative splicing activation of a subset of genes. Involved in the localization of DHX9 in discrete intranuclear foci (GLFG-body).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' UTR, compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.