

Product datasheet for MC229437

Nup98 (NM_001287165) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nup98 (NM_001287165) 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: >MC229437 representing NM_001287165
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTTAAACAAATCATTGGAACCCCTTTGGGGGTAGTACAGGGGGCTTTGGCACAACGTCAACATTTG
 GGCAAAACTACTGGCTTTGGTACGACTAGTGGAGGAGCATTGGAACATCTGCATTTGGTTCTAGCAACAA
 TACTGGAGGCTTATTTGAAATTCACAGACCAACCAGGAGGATTATTTGGTACCAGTTCATTTAGCCAG
 CCAGCAACCTCCACAAGCACTGGGTTTGGGTTTGGCACATCAACAGGAACATCAAATAGCTTATTTGGAA
 CTGCAAGTACCGGACCAGTCTTTTCTCATCCCAGAACAATGCATTTGCACAAAAATAACCAACTGGCTT
 TGGGAATTTTGGAAACAGTACTAGCAGTGGAGGACTCTTTGGAATAACAATACCACCTCTAATCCTTTT
 GGTAGCACATCTGGCTCCCTTTTGGGCCAAGTAGTTTTACAGCAGCACCTACAGGAACTACCATCAAAT
 TTAATCCTCCCACTGGTACAGATACTATGGTCAAAGCTGGAGTTAGCACTAACATCAGTACAAAGCATCA
 GTGTATTACTGCTATGAAAGAATATGAAAGCAAGTCATTAGAGGAACTACGTTTGGAGGATTATCAGGCT
 AACCGAAAGGCCACAGAACCAAGTGGGAGGAGGCACCACGGCTGGCTTATTTGGGCTCTTCCAGCAA
 CTTCCAGTGAACAGGGCTCTTACGCTCCTCACCCTAATTCAGCCTTTTCATATGGTCAGAACAACAAAC
 TGCTTTTGGAACTAGCACAACTGGATTTGGAACAAATCCAGGTGGTCTCTTTGGCCAACAGAATCAACAG
 ACTACCAGTCTCTTACGCAAAACCTTTGGCCAGGCTACAACCACCCGAATACTGGCTTTTCTTTGGTA
 ATACCAGCACCTTTGGACAGCCAAGCACCAATACTATGGGCTATTTGGAGTAACCAAGCCTCACAAAC
 AGGAGGTCTTTTGGGACAGCTACAAACACCAGCACTGGGACAGCATTGGGACAGGAACAGGTCTCTTT
 GGGCAGCCCAATACTGGATTTGGTGCAGTTGGTTCGACCCTGTTTGGCAATAACAAGCTTACAACTTTTG
 GAACCAGCACAAACAGTCTCTTCAATTTGGTACAACAGTGGCGGGCTCTTCGGGTTTGGCACAATAA
 CAGTGGGAGCAGTATTTTGAAGTAAGCCAGCAGCTGGAACCTTTGGGAACTGGACTTGGTACAGGATTT
 GGAACAGCTCTTGGTCTGGACAGGCATCTTTGTTTGGAAACAACCAACCTAAGATTGGAGGGCCTCTTG
 GTACAGGAGCCTTTGGGGCCCTGGATTTAATACTTCGACAGCCATTTTGGGCTTTGGCGCCCCCAGGC
 CCCAGTAGCTTTGACAGATCCAATGCTTCTGCTGCCAGCAGGCTGTTCTCCAGCAGCACCTCAATAGC
 CTAACATACTCACCTTTGGAGACTCCCCCTCTCCGGAATCCTATGTCAGATCCTAAGAAGAAAGAAG



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AGAGACTGAAACCAACCAATCCAGCTGCTCAGAAAGCTCTTACAACACCTACTCATTATAAACTTACACC
 TCGCCCTGCTACCAGAGTCAGGCCAAAGGCTTTGCAAACAACAGGCACAGCCAAATCACATCTCTTTGAT
 GGGCTGGATGACGATGAACCATCTAGCCAACGGAGCATTTCATGCCTAAAAAGAGCATCAAGAAGTTGG
 TTTTAAAAATCTCAACAATAGCAATCTCTTTCTCCTGTTAATCATGATTCAGAAGATCTAGCTTACC
 CTCTGAGTATCCAGAAAAATGGAGAAAGATTTAGCTTCTGAGCAAACCTGTTGATGAGAACAATCAGCAG
 GATGGAGAAGATGACTCTCTGTATCACGATTTTACACTAATCCTATTGCCAAACCCATTCCAAAACTC
 CAGAGAGTGTGGAAAAAATAACAGTAGCAGCAATGTGGAAGATACCATTGTTGCCTTGAACATGCG
 TGCTGCTTTGCGCAATGGATTGGAAGGAAGCAGTGAAGAGACGTATTCCATGATGAGTCATTGCAAGAT
 GACCGAGAAGAGATAGAAAAATAAGCTTACCACATACACCCAGCAGGCATTGTTCTCACAAAAGTTGGTT
 ATTACACTATCCCATCTATGGATGACCTTGCTAAAATTACCAACGAGAAGGGAGAATGCATTGTTTCTGA
 CTTACCATTGGTCGTAAGGATATGGCTCAATCTATTTTGAAGGAGATGTGAATTTGACAAATCTAAAT
 TTGGATGATATTGTGCATATCCGAAGGAAAGAAGTTATTGTCTATGTAGATGATAACCAAAAGCCACCTG
 TGGGTGAAGGGCTAAATAGGAAGGCTGAAGTTACTTTGGATGGAGTTTGGCCAACAGATAAAACATCCCG
 GTGTTTAAATAAAGAGTCCAGATCGACTTGCTGATCAACTATGAGGGGAGATTAGAAGCAGTCTCAAGA
 AAGCAAGGGGCCAATTCAGGAGTATCGGCCTGAACTGGTTCTTGGGTATTTAAGGTCTCCATTTTT
 CCAAGTATGGCCTTCAGGATTCTGATGAAGAGGAGGGAACACCCACCCAAAACGACTTCAAAGAAGCT
 GAAGACTGCCCTTTGCCCTGCAGGCCAGGCCAACCCTTTCCAGATGACTCTTAATGGCAAGCCTGCA
 CCCCCACCTCAGAGCCAGAGCCAGAAGTGAGCAGTTAGGCAGGGTTGTGGAAGTGACAGCGACATGG
 TAGATATACCCAGGAGCCAGTTCCAGATTCTGTGTTAGAAGAGAGTGTGCCCGAGGATCAGGAGCCTGT
 GTCTGCTCAACGCATATTGCATCTTACTGGGAATTAATCCACATGTTTACAGATCATGAAAGCATCA
 TTGCTTGTGACGAAGAAGATGTAGATGCCATGGATCAACGCTTTGGTCACATCCCTTCAAAGGAGAGA
 CTGTCCAGGAAATCTGTTCTCCTAGACTCCCCATTTAGCCTCCACTCATCAAAATCCCGCTCCATAGT
 TGGTGGGTTGCTGCAATCAAAATTTGCAAGTGGAACTTTCTTTTACCAAGTGCCTCCGTGCAAGAATGT
 CGCACTCCAGGACATCATCTCGCATGAACATCCCATCCACATCCCTTGGTCTGTCCCTTGCCTTGG
 CCACTGTGTTACAGTGCCAGCCAGCCCTGAGGTTTACAGTAAAAACAGTGGGGATACGAAGGCAACC
 AGGCCTAGTCCCTCTGAAAAATCCATTACATATGGCAAGGGGAAGCTCTTGATGGACATGGCCCTATTC
 ATGGGACGTTCAATTCGGGTTGGTTGGGGTCCCAACTGGACTCTTGCTAATAGTGGAGAACAAGTGCATG
 GCTCCCATGAACTGAAAAATCATCAGGTTGCCGATTCTATGGAATATGGATTCTGCCCAATCCAGTAGC
 TGTTAAATCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001287165
- Insert Size:** 3513 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001287165.1](#), [NP_001274094.1](#)

RefSeq Size: 4086 bp

RefSeq ORF: 3513 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 (3) has multiple coding region differences compared to variant 1 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 3 which is shorter and has a distinct C-terminus, compared to isoform 1.