

## Product datasheet for MR211775

### Nup98 (NM\_022979) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nup98 (NM_022979) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nup98
Synonyms:	4732457F17; A1849286; Nup96
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211775 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTAAACAATCATTGGAAACCCCTTTGGGGTAGTACAGGGGGCTTTGGCACAACGTCAACATTTG  
GGCAAAATACTGGCTTTGGTACGACTAGTGGAGGAGCATTGGAAACATCTGCATTTGGTTCTAGCAACA  
TACTGGAGGCTTATTTGGAATTCACAGACCAACCAGGAGGATTATTTGGTACCACTTATTTAGCCAG  
CCAGCAACCTCCACAAGCACTGGGTTGGGTTGGCACATCAACAGGAACATCAAATAGCTTATTTGGAA  
CTGCAAGTACCGGACCAGTCTTTCTCATCCCAGAACAATGCATTTGCACAAAAATAACCAACTGGCTT  
TGGGAATTTTGGAAACCAGTACTAGCAGTGGAGGACTCTTTGGAACTACAATAACCACTCTAATCCTTTT  
GGTAGCACATCTGGCTCCCTTTTGGGCCAAGTAGTTTTACAGCAGCACCTACAGGAACTACCATCAAAT  
TTAATCCTCCCCTGGTACAGATACTATGGTCAAAGCTGGAGTTAGCACTAACATCAGTACAAGGATCA  
GTGTATTACTGCTATGAAAGAATATGAAAGCAAGTCATTAGAGGAACTACGTTTGGAGGATTATCAGGCT  
AACCGAAAGGCCACAGAACCAAGTGGGAGGAGGCACCAGGCTGGCTTATTTGGGTCTTCTCCAGCAA  
CTTCCAGTGCAACAGGGCTCTTCAGCTCCTCCACCACTAATTCAGCCTTTTCATATGGTCAGAACAAAAC  
TGCTTTTGGAACTAGCACAACCTGGATTTGGAACAAATCCAGGTGGTCTCTTTGGCCAACAGAATCAACAG  
ACTACCAGTCTCTTCAGCAAACCTTTGGCCAGGCTACAACACCCGAATACTGGCTTTTCTTTGGTA  
ATACCAGCACCTTGGACAGCCAAGCACCAATACTATGGGCCTATTTGGAGTAACCAAGCCTCACAAAC  
AGGAGGCTCTTTTGGGACAGCTACAACACCAGCACTGGGACAGCATTGGGACAGGAACAGGTCTCTTT  
GGGACGCCAATACTGGATTTGGTGCAGTTGGTTCGACCTGTTTGGCAATAACAAGCTTACAACCTTTG  
GAACCAGCACAACCAGTCTCTTCAATTTGGTACAACAGTGGCGGGCTCTTCGGTAACAACCAACCTT  
GACTTTAGGAACCAATACAACACTTCCAATTTGGGTTTGGCACAATAACAGTGGGAGCAGTATTTTT  
GGAAGTAAAGCCAGCAGTGGAACTTTGGAACTGGACTTGGTACAGGATTTGGAACAGCTCTTGGTCTG  
GACAGGCATCTTTGTTTGGAAACAACCAACCTAAGATTGGAGGGCTCTTGGTACAGGAGCCTTTGGGGC  
CCCTGGATTAATACTTCGACAGCCATTTGGGCTTTGGCGCCCCCAGGCCCCAGTAGCTTTGACAGAT



CCAAATGCTTCTGCTGCCAGCAGGCTGTTCTCCAGCAGCACCTCAATAGCCTAACATACTACCCTTTG  
GAGACTCCCCCTCTCCGGAATCCTATGTCAGATCCTAAGAAGAAAGAAGAGAGACTGAAACCAACCAA  
TCCAGTGCTCAGAAAGCTTTACAACACCTACTCATTATAAACTTACACCTCGCCTGCTACCAGAGTC  
AGGCCAAAGGCTTTGCAAACAACAGGCACAGCCAAATCACATCTCTTTGATGGGTGGATGACGATGAAC  
CATCTCTAGCCACGGAGCATTTCATGCCTAAAAAGAGCATCAAGAAGTTGGTTTTGAAAAATCTCAACAA  
TAGCAATCTCTTTCTCCTGTTAATCATGATTGAGAAGATCTAGTTCACCCTCTGAGTATCCAGAAAAAT  
GGAGAAAAGATTTAGCTTCTGAGCAACCTGTTGATGAGAACAATCAGCAGGATGGAGAAGATGACTCTC  
TTGTATCACGATTTTACACTAATCCTATTGCCAAACCCATTCCACAAACTCCAGAGAGTGTGGAAACAA  
AAATAACAGTAGCAGCAATGTGGAAGATACCATTGTTGCCTTGAACATGCGTGCTGCTTTGCGCAATGGA  
TTGGAAGGAAGCAGTGAAGAGACGTCAATCCATGATGAGTCATTGCAAGATGACCGAGAAGAGATAGAAA  
ATAATGCTTACCACATACACCCAGCAGGCATTGTTCTCACAAAAGTTGGTTATTACACTATCCCATCTAT  
GGATGACCTTGCTAAAATTACCAACGAGAAGGGAGAATGCATTGTTTCTGACTTCACCATTGGTCGTAAA  
GGATATGGCTCAATCTATTTTGAAGGAGATGTGAATTTGACAAAATCTAAATTTGGATGATATTGTGCATA  
TCCGAAGGAAAGAAGTTATTGTCTATGTAGATGATAACCAAAAAGCCACCTGTGGGTGAAGGGCTAAATAG  
GAAGGCTGAAGTTACTTTGGATGGAGTTTGGCCAACAGATAAAAACATCCCGGTGTTTAAATAAAGAGTCCA  
GATCGACTTGCTGATATCAACTATGAGGGGAGATTAGAAGCAGTCTCAAGAAAGCAAGGGGCCCAATTCA  
AGGAGTATCGGCCTGAAACTGGTCTTGGGTATTTAAGGTCTCCCATTTTTCCAAGTATGGCCTTCAGGA  
TTCTGATGAAGAGGAGGAGGAACACCCACCCAAAACGACTTCAAAGAAGCTGAAGACTGCCCTTTGCC  
CCTGCAGGCCAGGCAACCACTTTCCAGATGACTCTTAATGGCAAGCCTGCACCCACCTCAGAGCCAGA  
GCCCAGAAGTGGAGCAGTTAGGCAGGGTGTGGAAGTGGACAGCGACATGGTAGATATCACCCAGGAGCC  
AGTTCCAGATTCTGTGTTAGAAGAGAGTGTGCCCGAGGATCAGGAGCCTGTGTCTGCTTCAACGCATATT  
GCATCTTCACTGGGAATTAATCCACATGTTTTACAGATCATGAAAGCATCATTGCTTGTGACGAAGAAG  
ATGTAGATGCCATGGATCAACGCTTTGGTCACATCCCTTCAAAGGAGAGACTGTCCAGGAAATCTGTTT  
TCCTAGACTCCCCATTTACGCTCCCACTCATCAAAATCCCGCTCCATAGTTGGTGGGTTGCTGCAATCA  
AAATTTGCAAGTGAAGTCTTTCTTTACCAAGTGCCTCCGTGCAAGAATGTCGACTCCCAGGACATCAT  
CTCGCATGAACATCCCATCCACATCCCCCTGGTCTGTCCCTCTGCCCTGGCCACTGTGTTACAGTGCC  
CAGCCCAGCCCCTGAGGTTGAGCTAAAAACAGTGGGGATACGAAGGCAACCAGGCCTAGTCCCTCTTGAA  
AAATCCATTACATATGGCAAGGGGAAGCTCTTGATGGACATGGCCCTATTCATGGGACGTTTCATTTGCGG  
TTGTTGGGGTCCCAACTGGACTCTTGCTAATAGTGGAGAACAATGCATGGCTCCCATGAACTGGAAAA  
TCATCAGGTTGCCGATTCTATGGAATATGGATTCTGCCCAATCCAGTAGCTGTTAAATCG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211775 protein sequence  
 Red=Cloning site Green=Tags(s)

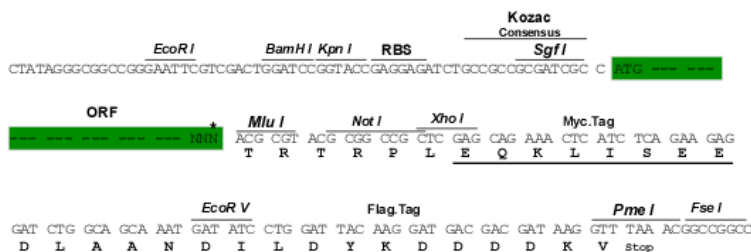
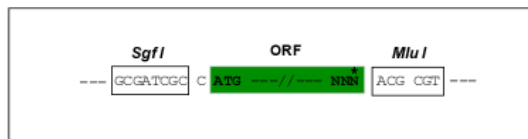
```

MFNKSFGTPTGGSTGGFGTTSTFGQNTGFGTSSGAFGTSAFGSSNNTGGLFGNSQTKPGGLFGTSSFSQ
PATSTSTGFGFGTSTGTSNSLFGTASTGTLFSSQNNFAQNKPTGFGNFGTSTSSGGLFGTTNTTNNPF
GSTSGSLFGPSSFTAAPTGTTIKFNPTGDTMVKAGVSTNISTKHQCITAMKEYESKSLEELRLEDYQA
NRKGPQNVGGGTTAGLFGSSPATSSATGLFSSSTTNSAFSYGQNKTAFGTSTTGFGTNPGLFGQQNQ
TTLFLSKPFGQATTTPTNTGFSFGNTSTLQPSNTMGLFGVTQASQPGGLFGTATNTSTGTAFGTGTGLF
GQPNTGFGAVGSTLFGNNKLTTFGTSTTSAPSGTSSGGLFGNKPTLTLGTNTNTSNFGGTNNSGSSIF
GSKPAAGTLGTLGTGFTALGAGQASLFGNNQPKIGGPLGTGAFGAPGFNTSTAILGFGAPQAPVALTD
PNASAAQAVLQQLNSLTYSFPGDSPLFRNPMSDPKKKEERLKPTNPAQKALTPPTHYKLTTPRATRV
RPKALQTTGTAKSHLFDGLDDDEPSLANGAFMPKKSIIKLVKLNLSNLSFSPVNHSEDLASPSEYPEN
GERFSFLSKPVDENNQQDGEDDSLVSRYTNPVIAKPIQTPESVGNKNNSSNVEDTIVALNMRALRNG
LEGSSEETSFHDESLQDDREEIENNAYHIHPAGIVLTKVGYTIPSMDDLAKITNEKGECIVSDFITGRK
GYGSIYFEGDVNLTNLNLDDIVHIRRREKIVYVDDNQKPPVGEGLNRKAEVTLDGWVPTDKTSRCLIKSP
DRLADINYEGRLEAVSRKQGAQFKEYRPETGSWVFKVSHFSKYGLQDSDEEEEEHPPKTTSKKLTAPLP
PAGQATTFQMTLNGKPAPPPQSQSPEVEQLGRVVELDSMVDITQEPVPDSVLEESVPEDQEPVSASTHI
ASSLGINPHVLQIMKASLLVDEEDVDAMDQRFGHIPSGETVQEICSPRLPISASHSSKRSRIVGGLLQS
KFASGTFLSPSASVQECRTPRTSSRMNIPSTSPWSVPLPLATVFTVPSAPEVQLKTVGIRRPGLVPLE
KSITYGKGLLMDMALFMGRSFRVWGPNWTLANSGEQLHGSHELENHQVADSMEYGLPNPVAVKS
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI  
 Cloning Scheme:

Cloning sites used for ORF Shuttling:

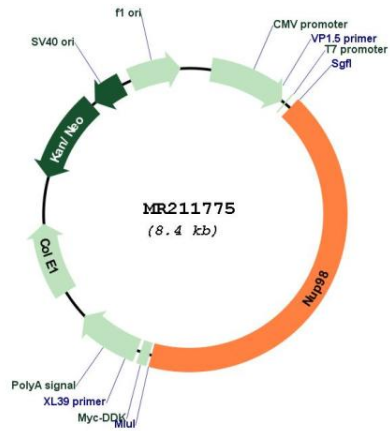


\* The last codon before the Stop codon of the ORF

ACCN: NM\_022979  
 ORF Size: 3564 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022979.2</a> , <a href="#">NP_075355.1</a>
<b>RefSeq Size:</b>	4137 bp
<b>RefSeq ORF:</b>	3564 bp
<b>Locus ID:</b>	269966
<b>UniProt ID:</b>	<a href="#">Q6PFD9</a>
<b>Cytogenetics:</b>	7 54.71 cM
<b>MW:</b>	124.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211775