OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR231443

Nup98 (NM_001287166) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nup98 (NM_001287166) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nup98
Synonyms:	4732457F17; AI849286; Nup96
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

ORF Nucleotide Sequence:

>MR231443 representing NM_001287166
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTAACAAATCATTTGGAACCCCCTTTGGGGGTAGTACAGGGGGCTTTGGCACAACGTCAACATTTG
GGCAAAATACTGGCTTTGGTACGACTAGTGGAGGAGCATTTGGAACATCTGCATTTGGTTCTAGCAACAA
TACTGGAGGCTTATTTGGAAATTCACAGACCAAACCAGGAGGATTATTTGGTACCAGTTCATTTAGCCAG
CCAGCAACCTCCACAAGCACTGGGTTTGGGTTTGGCACATCAACAGGAACATCAAATAGCTTATTTGGAA
CTGCAAGTACCGGGACCAGTCTTTTCTCATCCCAGAACAATGCATTTGCACAAAATAAACCAACTGGCTT
TGGGAATTTTGGAACCAGTACTAGCAGTGGAGGACTCTTTGGAACTACAAATACCACCTCTAATCCTTTT
GGTAGCACATCTGGCTCCCTTTTTGGGCCAAGTAGTTTTACAGCAGCACCTACAGGAACTACCATCAAAT
TTAATCCTCCCACTGGTACAGATACTATGGTCAAAGCTGGAGTTAGCACTAACATCAGTACAAAGCATCA
GTGTATTACTGCTATGAAAGAATATGAAAGCAAGTCATTAGAGGAACTACGTTTGGAGGATTATCAGGCT
AACCGGAAAGGCCCACAGAACCAAGTGGGAGGAGGCACCACGGCTGGCTTATTTGGGTCTTCTCCAGCAA
CTTCCAGTGCAACAGGGCTCTTCAGCTCCTCCACCACTAATTCAGCCTTTTCATATGGTCAGAACAAAAC
TGCCTTTGGAACTAGCACAACTGGATTTGGAACAAATCCAGGTGGTCTCTTTGGCCAACAGAATCAACAG
ACTACCAGTCTCTTCAGCAAACCATTTGGCCAGGCTACAACCACCCCGAATACTGGCTTTTCCTTTGGTA
ATACCAGCACCCTTGGACAGCCAAGCACCAATACTATGGGCCTATTTGGAGTAACCCAAGCCTCACAACC
AGGAGGTCTTTTTGGGACAGCTACAAACACCAGCACTGGGACAGCATTTGGGACAGGAACAGGTCTCTTT
GGGCAGCCCAATACTGGATTTGGTGCAGTTGGTTCGACCCTGTTTGGCAATAACAAGCTTACAACTTTTG
GAACCAGCACAACCAGTGCTCCTTCATTTGGTACAACCAGTGGCGGGCTCTTCGGGTTTGGCACAAATAA
CAGTGGGAGCAGTATTTTTGGAAGTAAGCCAGCAGCTGGAACTTTGGGAACTGGACTTGGTACAGGATTT
GGAACAGCTCTTGGTGCTGGACAGGCATCTTTGTTTGGAAACAACCAACCTAAGATTGGAGGGCCTCTTG
GTACAGGAGCCTTTGGGGCCCCTGGATTTAATACTTCGACAGCCATTTTGGGCTTTGGCGCCCCCCAGGC
CCCAGTAGCTTTGACAGATCCAAATGCTTCTGCTGCCCAGCAGGCTGTTCTCCAGCAGCACCTCAATAGC
CTAACATACTCACCCTTTGGAGACTCCCCCCTCTTCCGGAATCCTATGTCAGATCCTAAGAAGAAAGAAG
AGAGACTGAAACCAACCAATCCAGCTGCTCAGAAAGCTCTTACAACACCTACTCATTATAAACTTACACC
TCGCCCTGCTACCAGAGTCAGGCCAAAGGCTTTGCAAACAACAGGCACAGCCAAATCACATCTCTTTGAT
GGGCTGGATGACGATGAACCATCTCTAGCCAACGGAGCATTCATGCCTAAAAAGAGCATCAAGAAGTTGG
TTTTGAAAAATCTCAACAATAGCAATCTCTTTTCTCCTGTTAATCATGATTCAGAAGATCTAGCTTCACC
CTCTGAGTATCCAGAAAATGGAGAAAGATTTAGCTTCCTGAGCAAACCTGTTGATGAGAACAATCAGCAG
GATGGAGAAGATGACTCTCTTGTATCACGATTTTACACTAATCCTATTGCCAAACCCATTCCACAAACTC
CAGAGAGTGTTGGAAACAAAAATAACAGTAGCAGCAATGTGGAAGATACCATTGTTGCCTTGAACATGCG
TGCTGCTTTGCGCAATGGATTGGAAGGAAGCAGTGAAGAGACGTCATTCCATGATGAGTCATTGCAAGAT
GACCGAGAAGAGATAGAAAATAATGCTTACCACATACACCCAGCAGGCATTGTTCTCACAAAAGTTGGTT
ATTACACTATCCCATCTATGGATGACCTTGCTAAAATTACCAACGAGAAGGGAGAATGCATTGTTTCTGA
CTTCACCATTGGTCGTAAAGGATATGGCTCAATCTATTTTGAAGGAGATGTGAATTTGACAAATCTAAAT
TTGGATGATATTGTGCATATCCGAAGGAAAGAAGTTATTGTCTATGTAGATGATAACCAAAAGCCACCTG
TGGGTGAAGGGCTAAATAGGAAGGCTGAAGTTACTTTGGATGGAGTTTGGCCAACAGATAAAACATCCCG
GTGTTTAATAAAGAGTCCAGATCGACTTGCTGATATCAACTATGAGGGGAGATTAGAAGCAGTCTCAAGA
AAGCAAGGGGCCCAATTCAAGGAGTATCGGCCTGAAACTGGTTCTTGGGTATTTAAGGTCTCCCATTTTT
CCAAGTATGGCCTTCAGGATTCTGATGAAGAGGAGGAGGAACACCCACCCAAAACGACTTCAAAGAAGCT
GAAGACTGCCCCTTTGCCCCCTGCAGGCCAGGCAACCACTTTCCAGATGACTCTTAATGGCAAGCCTGCA
CCCCCACCTCAGGTAGAGAAGGGCAGAGAATGTGAATGCAGCTGTGGTAAAGAAGTCAGCTGTGCAACCC
TGGCTGCTATTTTTTACTCAAGATTTAAAGGGTTTTCTTGCTGTTTGGATCATTCTACAGATTGTAACTT
TCAATTTCTCTCATTTGGACTTGTAATGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

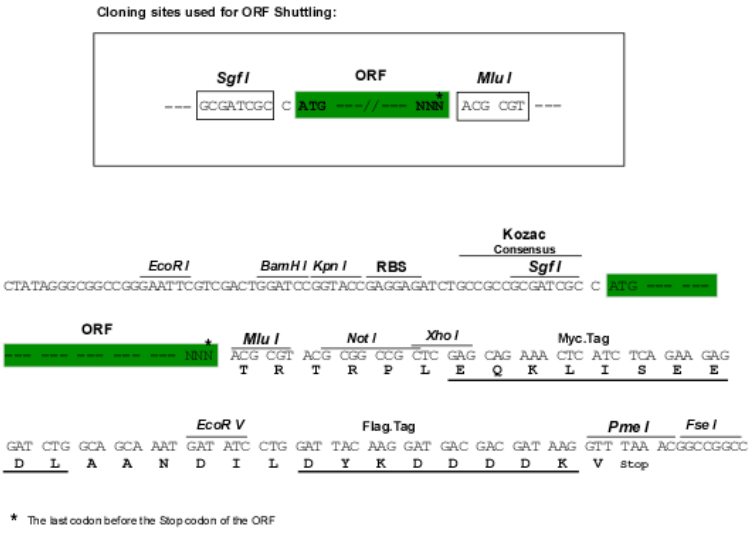
>MR231443 representing NM_001287166
Red=Cloning site Green=Tags(s)

MFNKSFGTPFGGSTGGFGTTSTFGQNTGFGTTSGGAFGTSAFGSSNNTGGLFGNSQTKPGGLFGTSSFSQ
PATSTSTGFGFGTSTGTSNSLFGTASTGTSLFSSQNNAFAQNKPTGFGNFGTSTSSGGLFGTTNTTSNPF
GSTSGSLFGPSSFTAAPTGTTIKFNPPTGTDTMVKAGVSTNISTKHQCITAMKEYESKSLEELRLEDYQA
NRKGPQNQVGGGTTAGLFGSSPATSSATGLFSSSTTNSAFSYGQNKTAFGTSTTGFGTNPGGLFGQQNQQ
TTSLFSKPFGQATTTPNTGFSFGNTSTLGQPSTNTMGLFGVTQASQPGGLFGTATNTSTGTAFGTGTGLF
GQPNTGFGAVGSTLFGNNKLTTFGTSTTSAPSFGTTSGGLFGFGTNNSGSSIFGSKPAAGTLGTGLGTGF
GTALGAGQASLFGNNQPKIGGPLGTGAFGAPGFNTSTAILGFGAPQAPVALTDPNASAAQQAVLQQHLNS
LTYSPFGDSPLFRNPMSDPKKKEERLKPTNPAAQKALTTPTHYKLTPRPATRVRPKALQTTGTAKSHLFD
GLDDDEPSLANGAFMPKKSIKKLVLKNLNNSNLFSPVNHDSEDLASPSEYPENGERFSFLSKPVDENNQQ
DGEDDSLVSRFYTNPIAKPIPQTPESVGNKNNSSSNVEDTIVALNMRAALRNGLEGSSEETSFHDESLQD
DREEIENNAYHIHPAGIVLTKVGYYTIPSMDDLAKITNEKGECIVSDFTIGRKGYGSIYFEGDVNLTNLN
LDDIVHIRRKEVIVYVDDNQKPPVGEGLNRKAEVTLDGVWPTDKTSRCLIKSPDRLADINYEGRLEAVSR
KQGAQFKEYRPETGSWVFKVSHFSKYGLQDSDEEEEEHPPKTTSKKLKTAPLPPAGQATTFQMTLNGKPA
PPPQVEKGRECECSCGKEVSCATLAAIFYSRFKGFSCCLDHSTDCNFQFLSFGLVMF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

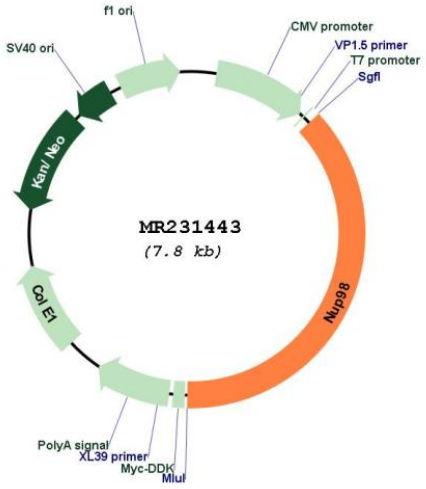
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001287166
ORF Size:	2901 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001287166.1, NP_001274095.1
RefSeq Size:	3930 bp
RefSeq ORF:	2904 bp
Locus ID:	269966
Cytogenetics:	7 54.71 cM

MW:	101.7 kDa
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]