

Product datasheet for **MR202679**

Nudt21 (NM_026623) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nudt21 (NM_026623) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nudt21
Synonyms:	25kDa; 3110048P04Rik; 5730530J16Rik; AU014860; AW549947; Cpsf5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202679 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGTGGTGCCGCCCAATCGCTCGCAGACGGGCTGGCCCCGGGGGTCAACCAAGTTCGGCAACAAGT
ACATCCAGCAGACCAAGCCCTCACCCCTGGAGCGCACCATTAATCTGTACCCGCTTACCAATTATACTTT
TGGTACAAAGGAGCCCTCTATGAGAAGGACAGCTCTGTTGCAGCCAGATTTAGCGCATGAGGGAGGAA
TTTGATAAGATTGGGATGAGAAGGACTGTAGAAGGGTCTGATTGTTTCATGAACACCGCCTGCCACG
TGCTCCTGCTGCAGCTGGGACAACCTTTCTCAAATTACCTGGTGGGAACTTAACCCAGGAGAAGATGA
AGTTGAAGGACTAAAACGCTTAATGACAGAGATACTTGGTCGTAAGATGGAGTCCCTGCAAGACTGGGTC
ATTGATGACTGCATTGGGAACTGGTGGAGACCAATTTTGAACCTCCTCAGTATCCGTATATTCTGCAC
ATATAACAAAACCAAGGAACATAAGAAGTTGTTTCTGGTTCAGCTTCAAGAGAAAGCCTTGTTTGCAGT
CCCTAAAATTACAAGCTGGTAGCTGCACCATTGTTTGGAGCTGTATGACAATGCACCGGGGTATGGACCC
ATCATTCTAGTCTTCTCAGCTGCTGAGCAGTTCAATTTTATATAAAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_026623.3](#), [NP_080899.1](#)

RefSeq Size: 1111 bp

RefSeq ORF: 684 bp

Locus ID: 68219

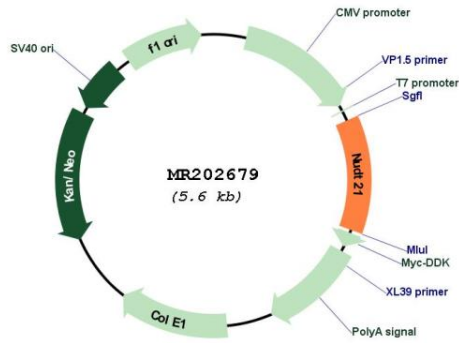
UniProt ID: [Q9CQF3](#)

Cytogenetics: 8 C5

MW: 26.2 kDa

Gene Summary: Component of the cleavage factor Im (CFIm) complex that functions as an activator of the pre-mRNA 3'-end cleavage and polyadenylation processing required for the maturation of pre-mRNA into functional mRNAs. CFIm contributes to the recruitment of multiprotein complexes on specific sequences on the pre-mRNA 3'-end, so called cleavage and polyadenylation signals (pA signals). Most pre-mRNAs contain multiple pA signals, resulting in alternative cleavage and polyadenylation (APA) producing mRNAs with variable 3'-end formation. The CFIm complex acts as a key regulator of cleavage and polyadenylation site choice during APA through its binding to 5'-UGUA-3' elements localized in the 3'-untranslated region (UTR) for a huge number of pre-mRNAs. NUDT21/CPSF5 activates indirectly the mRNA 3'-processing machinery by recruiting CPSF6 and/or CPSF7. Binds to 5'-UGUA-3' elements localized upstream of pA signals that act as enhancers of pre-mRNA 3'-end processing. The homodimer mediates simultaneous sequence-specific recognition of two 5'-UGUA-3' elements within the pre-mRNA (By similarity). Plays a role in somatic cell fate transitions and pluripotency by regulating widespread changes in gene expression through an APA-dependent function(PubMed:29249356). Binds to chromatin (PubMed:18032416). Binds to, but does not hydrolyze mono- and di-adenosine nucleotides (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202679