

## Product datasheet for **MR206830**

### **Ddx39b (NM\_019693) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ddx39b (NM_019693) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddx39b
Synonyms:	0610030D10Rik; AI428441; Bat-1; Bat1; Bat1a; D6S81Eh; D17H6S81E; D17H6S81E-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR206830 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGAGAACGATGTGGACAATGAGCTCTTGGACTACGAAGACGACGAGGTGGAGACAGCCGCTGGGG  
 CAGATGGGACCGAGGCTCCCGCCAAGAAAGACGTCAAGGGCTCCTACGTCTCCATCCATAGCTCCGGCTT  
 CCGAGATTTTCTACTCAAGCCAGAGCTGCTCCGGGCCATCGTTGACTGTGGCTTTGAGCATCCATCAGAG  
 GTCCAGCATGAGTGCATCCCGCAGGCCATTCTGGGGATGGATGTCCTGTGCCAGGCCAAGTCAGGCATGG  
 GAAAAACAGCAGTGTGGTCTCTGGCCACACTGCAGCAGCTGGAGCCCGTTACTGGGCAGGTGTCTGTGCT  
 GGTGATGTGTCACTAGGGAGCTGGCTTTTCAGATCAGCAAGGAATATGAGCGCTTCTCTAAGTACATG  
 CCGAATGTCAAGGTGGCAGTGTGGTGGCGGTCTGTCTATCAAGAAGGACGAAGAGGTGCTGAAGAAGA  
 ACTGTCCACACATCGTCTGGGGACTCCTGGCCGAATTCAGCCCTGGCTCGAAAATAAGAGCCTGAACCT  
 CAAACACATTAACACTTTATTTTGGACGAGTGTGACAAGATGCTTGAACAGCTCGACATCGCTCGGGAT  
 GTCCAGGAAATTTTTCGATGACCCCCATGAGAAGCAGGTGATGATGTTCAAGTGTACCTTGGCAAAAG  
 AGATCCGCCAGTCTGCCGAAGTTCATGCAAGATCCTATGGAGATCTTCGTGGATGACGAGACCAAGTT  
 GACGCTGCACGGGTTGCAGCAGTACTACGTGAAACTGAAGGACAACGAGAAGAACCAGGAGCTCTTTGAT  
 CTTCTCGATGTCCTCGAGTTCAACCAGGTGGTATCTTTGTGAAGTCCGTGCAGCGCTGCATCGCCCTGG  
 CCCAGCTTCTAGTGGAACAGAATTCCCAGCCATTGCTATCCATCGTGAATGCCCCAGGAGGAGAGGCT  
 CTCTCGGTATCAGCAGTCAAGGATTTTCAGCGGAGGATCTTGTGGCTACCAACCTGTTTGGCCGAGGC  
 ATGGATATTGAGCGTGTGAACATTGCTTCAACTATGACATGCCAGAGGACTCGGACACCTACCTGCACA  
 GGGTGGCCAGAGCGGGCCGGTTTGGCACCAAGGGCTTGGCCATCACATTTGTGTCAGATGAGAATGATGC  
 CAAGATCCTGAATGACGTTCAAGACCGTTTCGAGGTCAACATCAGCGAGCTGCCCGATGAGATTGACATT  
 TCCTCCTACATTGAGCAGACACGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206830 protein sequence  
 Red=Cloning site Green=Tags(s)

MAENDVDNELLDYEDDEVETAAGADGTEAPAKKDVKGSYVSIHSSGFRDFLLKPELLRAIVDCGFEHPSE  
 VQHECIPQAILGMDVLCQAKSGMGKTAVFVLATLQQLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYM  
 PNVKVAVFFGGLSIKKDEEVLKKNCPHIVVGTGPRILALARNKSLNLKHIKHFILDECCKMLEQLDMRRD  
 VQEIFRMTPEKQVMMFSATLSKEIRPVCRKFMQDPMEIFVDDETKLTLHGLQQYYVKLKDNEKNRKLFD  
 LLDVLEFNQVVFVKSQVRCIALAQLLVEQNFPAAIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRG  
 MDIERVNI AFNYDMPEDSDTYLHRVARAGRFGTKGLAITFVSDENAKILNDVQDRFEVNI SELPDEIDI  
 SSYIEQTR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

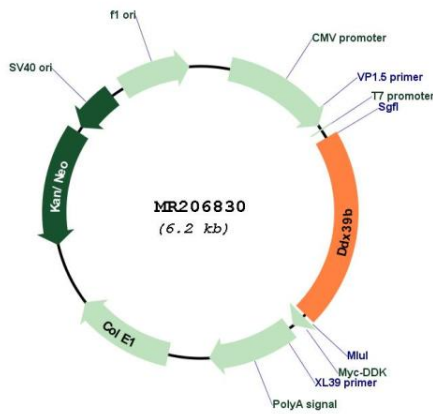
SgfI-MluI



**MW:** 49 kDa

**Gene Summary:** Involved in nuclear export of spliced and unspliced mRNA. Assembling component of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. May undergo several rounds of ATP hydrolysis during assembly of TREX to drive subsequent loading of components such as ALYREF/THOC and CHTOP onto mRNA. Also associates with pre-mRNA independent of ALYREF/THOC4 and the THO complex. Involved in the nuclear export of intronless mRNA; the ATP-bound form is proposed to recruit export adapter ALYREF/THOC4 to intronless mRNA; its ATPase activity is cooperatively stimulated by RNA and ALYREF/THOC4 and ATP hydrolysis is thought to trigger the dissociation from RNA to allow the association of ALYREF/THOC4 and the NXF1-NXT1 heterodimer. Involved in transcription elongation and genome stability (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206830