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Product datasheet for RR203564

Ddx39b (NM_133300) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx39b (NM_133300) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddx39b
Synonyms:	Bat1; Bat1a; p47
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203564 representing NM_133300 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCAGAGAACGATGTGGACAATGAGCTCTTGGACTATGAAGACGATGAGGTGGAGACGGCCGCTGGGG CAGATGGGACCGAAGCTCCCGCCAAGAAAGACGTCAAGGGCTCCTATGTCTCCATCCACAGCTCCGGCTT TCGAGATTTCCTACTTAAGCCAGAGTTGCTCCGGGCCATTGTTGACTGTGGCTTTGAGCATCCATCAGAG GTCCAGCATGAATGCATCCCCCAGGCCATTCTGGGGATGGATGTCCTGTGCCAGGCCAAGTCAGGCATGG GAAAAACAGCAGTGTTTGTCCTGGCCACACTGCAGCAGCTGGAGCCAGTTACTGGGCAGGTGTCAGTGCT GGTGATGTGTCACACCAGGGAGCTGGCTTTCCAGATCAGCAAGGAATATGAGCGCTTCTCAAAGTACATG CCGAATGTCAAGGTGGCAGTGTTTTTTGGCGGACTGTCTATCAAGAAGGATGAAGAGGTGCTGAAGAAGA ACTGCCCACACATTGTTGTGGGGACTCCTGGCCGAATTCTAGCCCTGGCCCGAAATAAGAGCCTGAACCT CAAACACATTAAACACTTTATCTTGGACGAATGTGACAAGATGCTTGAACAGCTCGACATGCGTCGGGAT GTCCAGGAAATTTTTCGCATGACCCCCCATGAGAAGCAGGTCATGATGTTCAGTGCTACCTTGAGCAAAG AGATCCGCCCAGTGTGCCGCAAGTTCATGCAAGATCCTATGGAGATCTTCGTGGATGACGAGACCAAGTT GACGCTGCACGGGTTGCAGCAATACTACGTGAAACTGAAGGACAACGAGAAGAACCGGAAGCTCTTTGAC CTTCTCGATGTCCTCGAGTTCAACCAGGTTGTGATCTTTGTGAAGTCCGTGCAGCGCTGCATCGCCTTGG CCCAGCTTCTAGTGGAGCAGAACTTCCCAGCCATTGCTATCCACCGCGGGATGCCCCAGGAGGAGAGGCT CTCTCGGTATCAGCAGTTCAAGGATTTTCAGCGGAGGATACTTGTGGCTACCAACCTGTTTGGCCGTGGC ATGGACATTGAGCGCGTGAACATCGCTTTCAACTATGACATGCCAGAGGACTCCGACACCTACCTGCACA GGGTGGCCAGAGCGGGCCGGTTTGGCACCAAGGGCTTGGCCATCACATTTGTGTCAGACGAGAACGATGC CAAGATCCTGAATGACGTGCAGGACCGTTTCGAGGTCAACATCAGTGAGCTGCCCGATGAGATCGACATT TCCTCCTACATTGAACAGACACGG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

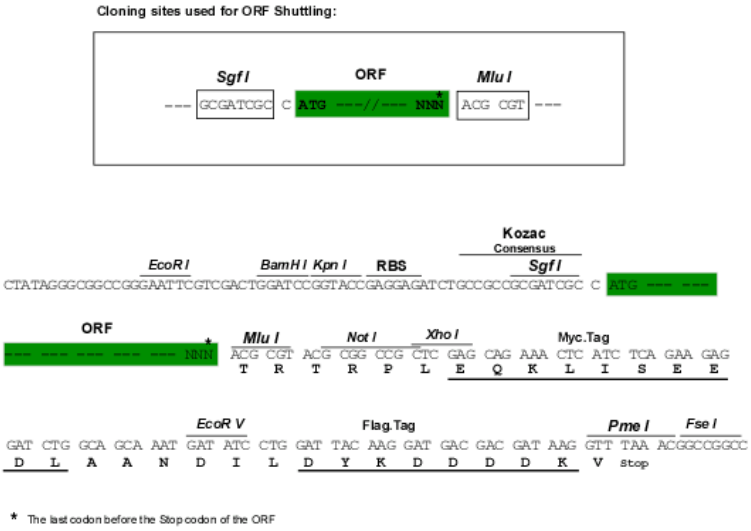
>RR203564 representing NM_133300
Red=Cloning site Green=Tags(s)

MAENDVDNELLDYEDDEVETAAGADGTEAPAKKDVKGSYVSIHSSGFRDFLLKPELLRAIVDCGFEHPSE
VQHECIPQAILGMDVLCQAKSGMGKTAVFVLATLQQLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYM
PNVKVAVFFGGLSIKKDEEVLKKNCPHIVVGTPGRILALARNKSLNLKHIKHFILDECDKMLEQLDMRRD
VQEIFRMTPHEKQVMMFSATLSKEIRPVCRKFMQDPMEIFVDDETKLTLHGLQQYYVKLKDNEKNRKLFD
LLDVLEFNQVVIFVKSVQRCIALAQLLVEQNFPAIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRG
MDIERVNIAFNYDMPEDSDTYLHRVARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNISELPDEIDI
SSYIEQTR

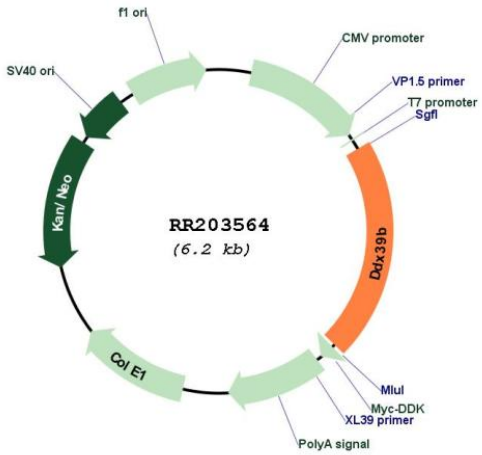
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133300

ORF Size:	1284 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_133300.3, NP_579834.2
RefSeq Size:	1711 bp
RefSeq ORF:	1287 bp
Locus ID:	114612
UniProt ID:	Q63413
Cytogenetics:	20p12
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]