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Product datasheet for MC221871

Ddx20 (NM_017397) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx20 (NM_017397) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ddx20
Synonyms:	dp103; GEMIN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC221871 representing NM_017397
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCGGCGTTTGAAGTCCCGGCGGCCTTGACAACCTCCGAGTCCACTATGGCTGCGGAGCGTG
CGGCCGCGCCCGGTGCAGGCTGTGGAGCCGACTCCGGCATCCCCGTGGACCCAGCGGACCGCACACGACAT
CGGCGGGCCGCGCACACGTACCGGGGACGTGGTGCTGGCGGAGCCCGCGGACTTCGAGTCGCTGCTGCTG
TCGCGACCGGTGCTGGAGGGTCTGCGGGCGGCCGGCTTCGAGAGACCCTCTCCGGTGCAGCTCAAGGCCA
TCCCGTTGGGGCGCTGCGGGCTCGATTTAATTGTCCAAGCTAAGTCGGGCACTGGAAAAACTTGTGTATT
CTCCACCATTGCTCTGGACTCTCTGATTCTTGAAAACTATAGTACTCAGATTTTGATATTGGCTCCCACA
AGAGAAATTGCTGTTCAGATACACTCGGTTATCACAGCCATTGGAATAAAAATGGAAGGATTAGAATGTC
ATGTCTTTATTGGAGGGACTCCATTATCACAAGACAAAACCAGACTTAAAAAGTGTCATATTGCTGTTGG
ATCTCCTGGTAGAATTAAACAGCTCATAGAACTTGACTACCTGAATCCGGGCAGTATCCGTCTCTTTATT
CTTGATGAAGCAGATAAGCTTTTAGAAGAAGGCAGTTTCCAGGAGCAAATAAATTGGATTTACTCCTCTT
TACCTGCGAGTAAGCAGATGTTGGCAGTATCTGCTACTTACCCTGAAGTTTTGGCTAATGCTTTGACAAG
GTATATGAGAGATCCCACTTTTGTAAGATTGAATCCCAGCGATCCAAGTCTCATAGGTTTGAAGCAGTAC
TACCAAGTTGTCAATTCTTACCCTTTGGCTCATAAGATTTTTGAGGAAAAGACTCAGCACTTACAGGAAC
TTTTTAGTAAAGTCCCATTTAATCAAGCCTTGGTGTTTTCTAATTTGCACAGCAGAGCTCAACATTTGGC
TGATATCCTTTCTTCTAAAGGTTTTCCTACTGAATGCATTTCAGGTAACATGAATCAGAATCAGCGCCTT
GATGCTATGGCTAAACTGAAGCAGTTTCATTGCAGAGTCCTCATTTCTACAGACTTGACGTCCCGTGGGA
TTGACGCAGAGAAGGTGAATCTAGTTGTAAATCTCGATGTGCCGTTAGACTGGGAGACTTACATGCATCG
GATTGGCAGAGCTGGCCGTTTTGGTACATTGGGACTGACAGTGACCTACTGTTGTAGAGGAGAAGAAGAA
AATATGATGATGAAAATTGCTCAGAAATGTAATATCAACCTTCTTCCTTTACCAGATCCTATTCCTCCTG
GCCTGATGGAAGAATGCTTGAATTGGGATGTGGAAGTTAAAGCTGCCATGCATACTTACAGCTCACCAAC
TGTAGCTACTCAGTCCCCCAAAAAGCAAGTTCAAAAACTAGAGAGAGCCTTCCAGTCTCAAAGAACGCCT
GGGAACCAAACGCCTTCCCCTAGAAATACTTCTGCATCTGCACTGTCAGCCAGGCCAAAGCACAGCAAAC
CAAAGCTTCCTGTGAAAAGCCACTCAGAGTGTGGAGTCCTAGAAAAGGCAGCTCCACCACAAGAGTCGGG
CTGTCCCGCACAGCTGGAAGAGCAAGTTAAGAATTCTGTTCAGACCTCTGTTGAGGATTCCTCCAGTAAC
AGCCAGCATCAGGCCAAAGATAGCTCACCTGGGTCACTCCCTAAAATCCCTTGTCTGTCTTCTTTTAAAG
TCCATCAGCCGTCTACTTTGACTTTTGCAGAACTGGTAGACGATTATGAGCACTATATTAAAGAGGGGTT
AGAGAAACCTGTGGAAATTATCCGGCACTACACAGGGCCTGAGGCCCAGACCGGGAATCCTCAGAATGGC
TTTGTGAGAAATAGAGTTTCTGAAGATAGAGCACAGATGTTGGTGAGTAGTAGCCAGTCTGGAGACTCAG
AGAGTGACAGCGATTCTTGCAGCTCAAGGACTTCTTCCCAGAGCAAAGGTAATAAGTCTTACTTGGAAGG
CTCCTCAGACACTCAGTTGAAAGACACTGAATGTACTCCTGTGGGTGGCCCTCTCTCTCTGGAACAAGTT
CAGAATGGAAATGATACCCCGACTCAAGTGGAGTATCAAGAAGCCCCTGAAACCCAGGTAAAGGCAAGGC
ATAAAGAAGGCGCTAACCAAAGGTCTAAGCAAAGTCGGAGAAACCCAGCACGGCGTTCTTCTTACCGAGT
ACAGTCAGAACCCCAGGAAGAGAGTTGGTATGACTGTCACAGGGAAACAACTGCAAGTTTTTCTGATACT
TACCAGGATTATGAGGAGTACTGGAGAGCGTATTACAGGGCATGGCAAGAGTATTATGCTGCTGCTTCCC
ATTCATACTATTGGAATGCTCAGAGACATCCAAGCTGGATGGCTGCCTATCATATGAATACAGTTTATCT
ACAAGAGATGATGCGTGGTAACCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_017397

Insert Size: 2478 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_017397.3, NP_059093.3
RefSeq Size:	2710 bp
RefSeq ORF:	2478 bp
Locus ID:	53975
UniProt ID:	Q9JJY4
Cytogenetics:	3 F2.2
Gene Summary:	The SMN complex plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus. May also play a role in the metabolism of small nucleolar ribonucleoprotein (snoRNPs) (By similarity).[UniProtKB/Swiss-Prot Function]