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Product datasheet for MC219493

Dtnb (NM_007886) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtnb (NM_007886) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dtnb
Synonyms:	dtn-b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC219493 representing NM_007886
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTGAGGAAGGCGGGAACAAGCGGAAGACCATGGCGGAGAAGAGGCAGCTCTTCATAGAAATGCGTG
CTCAGAATTTTGATGTCATACGACTATCAACGTACAGAACAGCTTGCAAGTTACGATTTGTACAGAAGCG
ATGCAACCTTCATCTTGTTGATATCTGGAATATGATCGAAGCTTTCCGAGACAATGGCCTTAACACGCTG
GACCACAGCACGGAGATCAGCGTGTCCCGCCTGGAGACCGTCATCTCGTCCATCTACTATCAGTTGAACA
AGCGCCTTCCTTCTACTCACCAGATCAGCGTGGAGCAGTCCATCAGTCTCCTACTCAATTTCATGGTCGC
CGCCTACGACAGTGAGGGCCGAGGCAAGTTGACCGTGTTTTCAGTTAAAGCTATGTTAGCAACCATGTGT
GGTGGAAAAATGCTGGACAAATTGAGATACATTTTCTCCCAGATGTCAGATTCCAATGGCTTAATGATGT
TTGGAAAGCTTGACCAGTTCCTGAAGGAAGCCCTGAAGCTCCCAACAGCTGTCTTTGAAGGGCCATCCTT
TGGTTACACAGAGCATGCAGTCCGTACCTGTTTTCCGCAGCAGAAGAAGATAATGCTGAATATGTTTTTA
GACACCATGATGGCTGATCCTCCTCCCCAGTGCCTTGTCTGGCTACCTCTCATGCACAGGCTTGCCCATG
TTGAGAATGTCTTCCATCCTGTGGAATGCTCCTACTGTCACTGCGAGAGCATGATGGGCTTCCGATACCG
ATGCCAGCAGTGCCACAACTACCAGCTCTGCCAGAACTGCTTTTGGCGTGGCCATGCCAGCGGCGCTCAC
AGCAACCAGCACCAGATGAAGGAGCATTCCTCTTGGAAATCCCCTGCAAAGAAGCTGAGCCATGCAATTA
GTAAATCTTTGGGATGTGTACCCTCCAGAGAACCCCCACATCCTGTTTTTCCTGAGCAACCAGAGAAACC
ACTTGACCTTGCACATCTAGTTCCTCCTCGCCCTCTGACCAATATGAATGACACCGTGGTTAGTCACATG
TCCTCTGGAGTGCCCACTCCCACCAAGAGGTTACAGTATAGCCAAGACATGCCCAATCTCTTGGCCGATG
AGCATGCGCTGATAGCCTCCTATGTGGCTCGTCTGCAACACTGCACACGTGTGCTGGACAGTCCTAGCCG
ACTGGATGAGGAACACCGGCTTATAGCCCGCTATGCTGCCCGGCTAGCTGCAGAGGCAGGAAACATGACT
CGTCCTCCCACTGATGCCAGCTTCAACTTTGATGCCAACAAACAACAGAGACAGCTCATTGCAGAGCTGG
AGAACAAGAACAGAGAGATCCTGCAGGAGATCCAGCGCCTGCGGCTGGAGCATGAACAGGCTTCCCAGCC
CACCCCTGAGAAGGCTCAGCAGAACCCCATGCTGCTAGCAGAGCTGCGCTTGCTGAGGCAAAGGAAAGAT
GAGCTGGAGCAAAGGATGTCAGCGCTGCAGGAGAGTAGGCGAGAGCTGATGGTGCAGCTGGAGGGGCTGA
TGAAGTTGCTAAAGGCTCAAGCCACAGGGTCACCACACACATCACCCACCCATGGAGGTGGCCGCCCTAT
GCCCATGCCTGTGCGTTCTACATCTGCTGGCTCCACCCCGACCCACGGCCCGCAGGACTCACTGAGTGGA
GTTGGGGGAGATGTCCAGGAGGCCTTTGCACAAGGTACGAGGAGAAACCTCCGCAATGACTTGCTGGTGG
CTGCTGACTCCATCACCAACACCATGTCCTCCCTGGTGAAGGAGCTCCATTCAGGTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007886

Insert Size: 1809 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.
RefSeq:	NM_007886.2, NP_031912.2
RefSeq Size:	2326 bp
RefSeq ORF:	1809 bp
Locus ID:	13528
Cytogenetics:	12 1.88 cM
Gene Summary:	Scaffolding protein that assembles DMD and SNTA1 molecules to the basal membrane of kidney cells and liver sinusoids (PubMed:11585924). May function as a repressor of the SYN1 promoter through the binding of repressor element-1 (RE-1), in turn regulates SYN1 expression and may be involved in cell proliferation regulation during the early phase of neural differentiation (PubMed:20530487). May be required for proper maturation and function of a subset of inhibitory synapses (PubMed:16540561).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR and contains an alternate exon in the 3' coding region, which results in a frameshift and an early stop codon compared to variant 1. The encoded isoform (b) is shorter and has a distinct C-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: This CCDS was updated because the previous transcript is a nonsense-mediated mRNA decay (NMD) candidate, and is unlikely to produce a protein. The new transcript would not be subject to NMD and encodes a protein with homology support in human (NP_899204.1).