

Product datasheet for **MG209321**

Dtnb (BC030924) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtnb (BC030924) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dtnb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209321 representing BC030924
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGAGGAAGCGGGAACAAGCGGAAGACCATGGCGGAGAAGAGGCAGCTCTTCATAGAAATGCGTG
 CTCAGAATTTTGTATGTCATACGACTATCAACGTACAGAACAGCTTGCAAGTTACGATTTGTACAGAAGCG
 ATGCAACCTTCATCTTGTGATATCTGGAATATGATCGAAGCTTTCCGAGACAATGGCCTTAACACGCTG
 GACCACAGCACGGAGATCAGCGTGTCCCGCTGGAGACCGTCATCTCGTCCATCTACTATCAGTTGAACA
 AGCGCCTTCTTTCTACTCACCAGATCAGCGTGGAGCAGTCCATCAGTCTCCTACTCAATTCATGGTCGC
 CGCCTACGACAGTGAGGGCCGAGGCAAGTTGACCGTGTTCAGTTAAAGCTATGTTAGCAACCATGTGT
 GGTGGAAAAATGCTGGACAAATTGAGATACATTTCTCCAGATGTCAGATTCGAATGGCTTAATGATGT
 TTGGAAAGCTTGACCAGTTCCTGAAGGAAGCCCTGAAGCTCCCAACAGTGTCTTTGAAGGGCCATCCTT
 TGTTTACACAGAGCATGCAGTCCGTACCTGTTTTCCGCAGCAGAAGAAGATAATGCTGAATATGTTTTTA
 GACACCATGATGGCTGATCCTCCTCCCAAGTGCCTTGTCTGGCTACCTCTCATGCACAGGCTTGCCCATG
 TTGAGAATGTCTTCCATCCTGTGGAATGCTCCTACTGTCAGTGGAGAGCATGATGGGCTCCGATACCG
 ATGCCAGCAGTGCCACAACCTACCAGCTCTGCCAGAAGTCTTTGGCGTGGCCATGCCAGCGGCGCTCAC
 AGCAACCAGCACCAGATGAAGGAGCATTCTCTTGAAAATCCCCTGCAAAGAAGCTGAGCCATGCAATTA
 GTAATCTTTGGGATGTGACCTCCAGAGAACCCCAACATCCTGTTTTCTGAGCAACCAGAGAAACC
 ACTTGACCTTGCACATCTAGTTCCTCCTCGCCCTGACCAATATGAATGACACCGTGGTTAGTCACATG
 TCCTCTGGAGTGCCCACTCCCAACAGAGTTACAGTATAGCCAAGACATGCCCAATCTCTTGCCGATG
 AGCATCGCTGATAGCCTCCTATGTGGCTCGTCTGCAACACTGCACACGTGTGCTGGACAGTCTAGCCG
 ACTGGATGAGGAACACCGGCTTATAGCCGCTATGCTGCCGGCTAGCTGCAGAGGCAGGAAACATGACT
 CGTCTCCCACTGATGCCAGTTCAACTTTGATGCCAACAAACAACAGAGACAGCTCATTGCAGAGCTGG
 AGAACAAGAACAGAGAGATCCTGCAGGAGATCCAGCGCCTGCGGCTGGAGCATGAACAGGCTTCCAGCC
 CACCCCTGAGAAGGCTCAGCAGAACCCATGCTGCTAGCAGAGCTGCGCTTGCTGAGGCAAAGGAAAGAT
 GAGCTGGAGCAAAGGATGTCAGCGCTGCAGGAGAGTAGGCGAGAGCTGATGGTGCAGCTGGAGGGGCTGA
 TGAAGTTGCTAAAGGCTCAAGCCACAGGGTCACCACACACATCACCCACCATGGAGGTGGCCGCCCTAT
 GCCCATGCCTGTGCGTTTACATCTGCTGGCTCCACCCGACCCACGGCCCGCAGGACTCACTGAGTGGA
 GTTGGGGGAGATGTCAGGAGGCCTTGCACAAGGTACGAGGAGAAACCTCCGCAATGACTTGTGTTGG
 CTGCTGACTCCATCACCAACACCATGTCCTCCCTGGTGAAGGAGCTCCATTCAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209321 representing BC030924
 Red=Cloning site Green=Tags(s)

MIEEGNKRKTMAEKRQLFIEMRAQNFVIRLSTYRTACKLRFVQKRCNLHLVDIWNMIEAFRDNGLNLT
 DHSTEISVSRLETVISSIIYYQLNKRLPSTHQISVEQSIISLLNFMVAAYDSEGRGKLTVFSVKAMLATMC
 GGKMLDKLRYIFSQMSDSNGLMMFGKLDQFLKEALKLPTAVFEGPSFGYTEHAVRTECFPQQKIMLNMFL
 DTMADPPPQCLVWLPLMHLRAHVENVFHPVECSYCHCESMMGFRYRCQQCHNYQLCQNCFWRGHASGAH
 SNQHQMKEHSSWKSPAKKLSHAISKSLGCVPSREPPHPVFPEQPEKPLDLAHLVPPRPLTNMNDTVVSHM
 SSGVPTPTKRLQYSQDMPNLLADEHALIASYVARLQHCTRVLDSPSRLDEEHRLIARYAARLAAEAGNMT
 RPPTDASFNFDANKQQRQLIAELENKNREILQEIQRLRLEHEQASQPTPEKAQQNPMLLAE LRLLRQRKD
 ELEQRMSALQESRRELMVQLEGLMKLLKAQATGSPHTSPTHGGGRMPMPVVRSTSAGSTPTHGPQDSL
 VGGDVQEAFAQGTRRNL RNDLLVAADSI TNTMSSLVKELHSG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC030924

ORF Size: 1808 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: [BC030924](#), [AAH30924](#)

RefSeq Size: 2329 bp

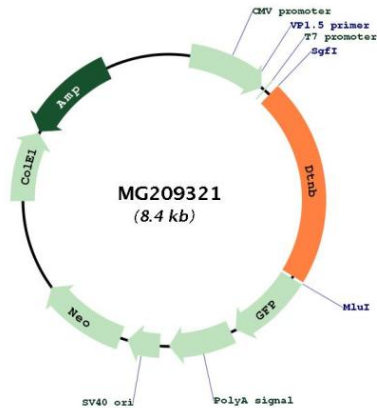
RefSeq ORF: 1808 bp

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]

Product images:

Circular map for MG209321