

Product datasheet for **MG205852**

Dmbx1 (BC050912) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmbx1 (BC050912) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dmbx1
Synonyms:	Atx, Cdmx, Mbx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205852 representing BC050912 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCACTATGGGGTGAATGGCTACTCCCTGCACGCTATGAACTCACTCAGCGCCATGTACAACCTGC
ACCAGCAGGCAGCCAGCAGGCCAGCAGCCCCGACTACCGGCATCAGTGCATGCGCTTACGTTGGC
TGAGCGCTAGCTGACATCATCTTGGAGGCCGCTATGGCTCCCAGCACCGTAAACAACGTCGGAGTCGC
ACGGCGTTCACGCCCAGCAGCTTGAGGCCCTGGAGAAGACCTTCCAAAAGACTCATTACCCAGATGTGG
TGATGCGCGAGAGGCTGGCCATGTGTACCAATCTCCTGAGGCCGTGTACAGGTGTGGTTAAGAACCG
CAGGGCCAAGTTCGAAAAGAAGCAGCGCAGCCTGCAGAAAAGAGCAGCTCCAGAAAACAAGAGGCCGAG
GGTCCCACGGAGAAGGCAAGGTGGAGGCCAGCCTCAGACACGAGCTGGAACAGAACGCCTCCTG
GTTTGCCAGTGGTGATCCTCCTGCTGAACTTCAACTGAGCCTGTGCGAGCAGTCAGCCAGCGAGTCTGC
CCCAGAAGATCAGCTGGACCGTGAAGAGGACTCCCGTGCCGAGGAGCCAAAGCTGAAAAGAGCCCTGGA
TCTGAGAGCAAGGTGCCGGCTGCAAGAGGGGCAGCCCTAAGGCAGATTCGCCAGGCAGCCTGGCCATAA
CGCCCCAGCCCCAGGGGGCGCCTCCTTGGTCTTCCCACTCCTACTCCTCATCCCCACTCAGCCTCTT
CCGTCTGCAGGAGCAGTCCGCCAGCATATGGCGGCCACCAACAACCTGATGCACTACTCGTCTTTTGA
GTGGCGGTCCCGCACCTGCGGGCGCTGCAGTGCAGCGCGGTGCCGTGCCCTACCTAGGGGTCAACATGG
CCCAATTGAGCTCCCTACACTGCCAGTCCCTATTACCAATCCCTGTGAGCAGCTGCTGCCACCCAGGG
TGTGTGGGGTCCCCATTGCTGCCGGCGCCCCACAGGCCTGGCACCTGCCTCCGCTGCCCTGAACAGT
AAAACCACGAGCATTGAAAACCTTCGCCTCCGGGCCAAGCAGCACGCCGATCCCTGGGACTCGATACAC
TCCCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205852 representing BC050912
Red=Cloning site Green=Tags(s)

MQHYGVNGYSLHAMNSLSAMYNLHQAAQQAQHAPDYRPSVHALTLAERLADIILEARYGSQHRKQRRSR
 TAFTAQQLALEKTFQKTHYPDVVMRERLAMCTNLPEARVQVWFKNRRAKFRKKQRLQKEQLKQKEAE
 GSHGEGKVEAPASDTQLETEQPPGLPSGDPPAELQLSLSEQSASESAPEDQLDREEDSRAEPEKAEKSPG
 SESKVPGCKRGSPKADSPGSLAITPAAPGGGLLGPSSYSSSPLSLFRLQEQFRQHMAATNMLMHYSSFE
 VGGPAPAAAAAAAAAAVPLYLGVNMAPLSSLHCQSYQSLSAAAAAHQGVWGSPLLPApptGLAPASAAALNS
 KTTSIENLRLRAKQHAASLGLDLPN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC050912

ORF Size: 1130 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: [BC050912](#), [AAH50912](#)

RefSeq Size: 4016 bp

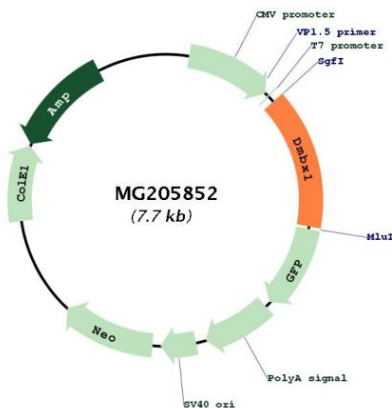
RefSeq ORF: 1130 bp

Locus ID: 140477

Cytogenetics: 4 53.07 cM

Gene Summary: Functions as a transcriptional repressor. May repress OTX2-mediated transactivation by forming a heterodimer with OTX2 on the P3C (5'-TAATCCGATTA-3') sequence. Required for brain development, neonatal survival, postnatal growth, and nursing ability.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205852