

## Product datasheet for **MC200723**

### **Dbn1 (NM\_019813) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dbn1 (NM_019813) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dbn1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC006714 sequence for NM\_019813  
 GGCGGGCTAGGACCGAGCGAGCCGAGGGAGTGAGCCGGGCGGAGCCAGCGCCCCCGCCCCGCCCC  
 CGCAGCATGGCCGGCGTCAGCTTCAGCGGCCACCCTGGAGCTGCTGGCGGCGTACGAGGAGGTGATCC  
 GGGAGGAGAGCGCAGCCGACTGGGCTCTGTACACATACGAGGATGGCTCAGATGACCTCAAGCTTGACGC  
 GTCAGGAGAAGGGGGCTTGACAGGAGCTTCCGGCCACTTCGAGAACCAGAAAGTGATGTATGGTTTCTGC  
 AGCCTCAAGGACTCCCAAGCTGCCCTGCCAAAATATGTGCTCATCAACTGGTTGGTGAGGATGGCCTG  
 ATGCCCGAAAATGTGCTTGCAGCAGTCATGTGGCCAAGGTGGCTGAATTTCCAGGGTGTGATGTCAT  
 TGTGAATGCCAGCAGTGTGGAAGACATCGATGCTGGTGCCATTGGGCAGCGGCTCTCCAATGGACTGGCA  
 CGGCTCTCCAGCCAGTATTGCACCCGCTGCGCCTTCGGGAGGATGAAAATGCTGAACCGTGGGTACCA  
 CCTACCAGAAGACGGATGCAGCAGTGGAGATGAAGCGGATTAACCGTGAGCAGTTTTGGGAGCAGGCCAA  
 GAAGGAGGAAGAGCTGCGGAAGGAGGAGGAGCGGAAGAAGGCTCTGGACGCCAGGCTCAGTTTTGAACAG  
 GAACGGATGGAGCAGGAGCGGCAGGAGCAGGAAGAAGCTGAGCGGCGCTACCGGGAGCGGGAGCAGAGA  
 TTGAGGAGCACAGGAGGAAAACAGCAGAGCTGGAAGCTGAAGAAGCCAAGAGGAGTTAAAGGAGCAGTC  
 TATCTTTGGTGACCAGCGGGATGAAGAGGAAGAGTCCCAGATGAAGAAGTCGGAGTCAGAGTGGAGGAG  
 GCGGCTGCCATCATTGCCAGCGGCTGATAACCCACGGGAGTTCTTCAGACAGCAGGAACGAGTGGCAT  
 CGGCCTCTGGTGGCAGCTGTGACGCGCCTGCGCCTGCACCTTCAACCACCGACCAGGCAGCCACCTGGA  
 CAGCCACCGGAGGATGGCACCCACTCTATTCCACCCGAGCCCATCTGATTCCAGCACAGCCTTACC  
 CCCATCGCTGAGCAGATCGAGAGGGCCCTGGATGAGGTACATCCTCGCAGCCTCCACCTCCACCTCCAC  
 CACCTCCACCAACTCAAGAGGCCAGGAGACTACCCCAAGCCTGGATGAAGAGCTCAGCAAGGAGGCCAA  
 AGTAACAGCAGCTCCTGAGGTCTGGGCTGGCTGTGCGGCAGAGCCCCCTCAGGCACAGGAACCTCCCCTG  
 TTGCAAAGCAGCCCCCTGGAGGACTCGATGTGCACAGAATCTCCAGAGCAGGCTGCCCTGGCTGCCCTG  
 CGGAGCCTGCTGCCTCTGTCACCTCAGTAGCTGATGTCCATGCAGCTGACACCATTGAGACCACCACTGC  
 CACTACTGACACCACTATTGCCAACACGTCACCCCTGCCGCTGCCAGCCTCATTGATCTATGGCTGGC  
 AACGGGGAAGAGCCTCAACACTTCAGGCTGAACCCAGGGTGCCACACCACCTCAGGTGCTGAGGCT  
 CCCTGGCAGAGGTGCCCTGCTGAATGAGGCGCTCAGGAGCCGCTGCCCGCGTGGTGAAGGCTGTGC  
 TAACCTTCTTAATTTTGTAGAGTGCAGAACCTCCAGCCACCTTCTGTGACCCAGAGGAGGAAGTAGGA  
 GAAACGCTGGCTGCCTCCAGGTCTAACTATGCCCTCAGCTCTAGAGGAGGTAGATCAGGTGCTGGAGC  
 AGGAGCTGGAGCCAGAACCTCACCTGCTGACCAATGGAGAGACCACTCAAAGGAGGGGACCCAGGCCAG  
 CGAAGGATACTTCAGTCAGTCACAGGAGGAAGAGTTCGCCAATCAGAAGAGCCATGTGCAAAGGTTCCG  
 CCTCCTGTATTTTACAACAAGCCTCCAGAAATCGACATCACCTGCTGGGATGCAGACCCAGTTCTCTGAAG  
 AGGAAGAGGGCTTCGAGGGTGGTATTAGTAGCGGCGACTGCCCCCTGGCTGCCCTGCCAAGGCTGCCT  
 ACCTGCAGTGGCCTCTGGCCAGCCGCTTCGAGTGCCAGCATTAGCAGCAGCCCCGCTGGCTCCCCTC  
 TGGATTCCGGCACTGGCCGGGACCTGTCTGCTTCTTACCCACAGGGCCTGACTTTTACAGCTTTTCTC  
 TTTTTTTTAAAAGTTGATAGACTGTACAATTGACTGGTTTTCTCCCCTGGTGGTGGTAAACAATGTTG  
 CAGATTCACCCCTTCTGCCAGACCAGATTGTAGCTTAGTTCTTTCTGCTCAGCTGACCAGGGTGGGA  
 GGCCTCACCTTGTGGGACCTGGTGGGGTGGGGTCTGGTGGGAAAATGTTCCCCCATCACTTTT  
 CCTAGTTTTATGTTTCTGGAAAAAAATCACTTTGTATTCTCTAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_019813

**Insert Size:** 1983 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:** [BC006714](#), [AAH06714](#)

**RefSeq Size:** 2539 bp

**RefSeq ORF:** 1983 bp

**Locus ID:** 56320

**UniProt ID:** [Q9QXS6](#)

**Cytogenetics:** 13 30.06 cM

**Gene Summary:** Actin cytoskeleton-organizing protein that plays a role in the formation of cell projections (By similarity). Required for actin polymerization at immunological synapses (IS) and for the recruitment of the chemokine receptor CXCR4 to IS (By similarity). Plays a role in dendritic spine morphogenesis and organization, including the localization of the dopamine receptor DRD1 to the dendritic spines (PubMed:25865831). Involved in memory-related synaptic plasticity in the hippocampus (PubMed:25865831).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an alternate in-frame exon, compared to variant 1. The resulting isoform (3) lacks an alternate segment, compared to isoform 1. 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.