

## Product datasheet for **MR220992**

### **Dbn1 (NM\_001177371) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dbn1 (NM_001177371) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dbn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR220992 representing NM\_001177371  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGGCGTCAGCTTCAGCGGCCACCGCTGGAGCTGCTGGCGGCGTACGAGGAGGTGATCCGGGAGG  
 AGAGCGCAGCCGACTGGGCTCTGTACACATACGAGGATGGCTCAGATGACCTCAAGCTTGCAGCGTCAGG  
 AGAAGGGGGCTTGCAGGAGCTTCCGGCCACTTCGAGAACCAGAAAGTGATGTATGGTTTCTGCAGCGTC  
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 AGAAGACGGATGCAGCAGTGGAGATGAAGCGGATTAACCGTGAGCAGTTTTGGGAGCAGGCCAAGAAGGA  
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 AGCACAGGAGGAAACAGCAGAGTCTGGAAGCTGAAGAAGCCAAGAGGAGGTTAAAGGAGCAGTCTATCTT  
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 GCCATCATTGCCAGCGGCTGATAACCCACGGGAGTTCTTCAGACAGCAGGAACGAGTGGCATCGGCT  
 CTGGTGGCAGCTGTGACGCGCTGCGCCTGCACCTTCAACCACCGACCAGGTCGTCCTACTGCCCTTT  
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 CCCTATACACCTGCCACCGCACCCCAACCTCTCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT  
 GGAGGATGGCACCCACTCCTATTCCACCCGGAGCCCATCTGATTCAGCACAGCCTCTACCCCATCGC  
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 CCAACTCAAGAGGCCAGGAGACTACCCCAAGCCTGGATGAAGAGCTCAGCAAGGAGGCCAAAGTAACAG  
 CAGCTCCTGAGGTCTGGGCTGGCTGTGCGGCAGAGCCCCCTCAGGCACAGGAACCTCCCCTGTTGCAAAG  
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 GAGCCAGAACCTCACCTGCTGACCAATGGAGAGACCACTCAAAGGAGGGGAGCCAGGCCAGCGAAGGAT  
 ACTTCAGTCAGTCACAGGAGGAAGAGTTCGCCAATCAGAAGAGCCATGTGCAAAGGTTCCGCCTCCTGT  
 ATTTTACAACAAGCCTCCAGAAATCGACATCACCTGCTGGGATGCAGACCCAGTTCTGAAGAGGAAGAG  
 GGCTTCGAGGGTGGTGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR220992 representing NM\_001177371  
Red=Cloning site Green=Tags(s)

```
MAGVSFSGHRLELLAAYEEVIREESAADWALTYEDGSDDLKLAASGEGGLQELSGHFENQKVMYGFCSV
KDSQAALPKYVLINWVGEDVPDARKCACASHVAKVAEFQGVVDIVNASSVEDIDAGAIGQRLSNGLARL
SSPVLHRLRLREDENAEPVGTYYQKTDAAVEMKRINREQFWEQAKKEELRKEEERKKALDARLRFEQER
MEQERQEERERRRYREREQQIEEHRRKQSLAEAAKRRLEQSFIFGDQRDEEEESQMKKSESEVEEAA
AIIAQRPDNPREFFRQQERVASASGGSCDAPAPAFNHRPGRPYCFIKASDSGSPSSSSSSSSPPRTPF
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PTQEAQETTPSLDEELSKEAKVTAPEVWAGCAAEPQAQEPPLLQSSPLEDSMCTESPEQAALAAPAEP
AASVTSVADVHAADIETTTATDTTIANNVTPAAASLIDLWPGNGEEASTLQAEPRVTPPPSGAEASLA
EVPLLNEAAQEPLPPVGEGCANLLNFDELPEPPATFCDPPEEVGETLAASQVLTMPALEEVDQVLEQEL
EPEPHLLTNGETTQKEGTQASEGYFSQSQEEFAQSEEPKAKVPPPVFYKPPPEIDITCWDADVPVEEEE
GFEGGD
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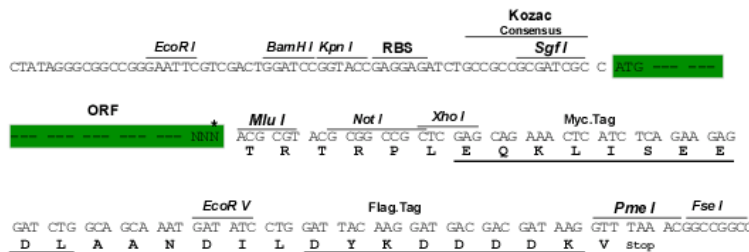
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1446\\_g05.zip](https://cdn.origene.com/chromatograms/ja1446_g05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

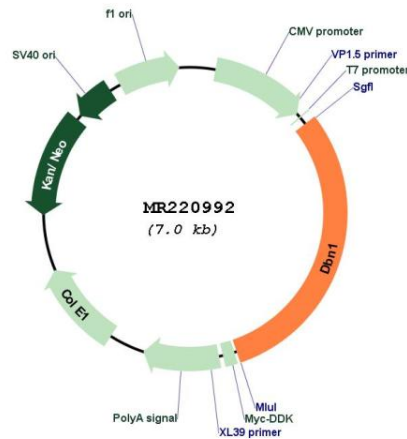
**ACCN:** NM\_001177371

**ORF Size:** 2118 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001177371.1, NP_001170842.1</u>
<b>RefSeq Size:</b>	3044 bp
<b>RefSeq ORF:</b>	2121 bp
<b>Locus ID:</b>	56320
<b>UniProt ID:</b>	<u>Q9QXS6</u>
<b>Cytogenetics:</b>	13 30.06 cM
<b>MW:</b>	77.7 kDa
<b>Gene Summary:</b>	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]

**Product images:**


Circular map for MR220992