

Product datasheet for **MR209840**

Dbn1 (NM_019813) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dbn1 (NM_019813) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dbn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209840 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCCGGCGTCAGCTTCAGCGGCCACCGCTGGAGCTGTGGCGGCGTACGAGGAGGTGATCCGGGAGG
AGAGCGCAGCCGACTGGGCTCTGTACACATACGAGGATGGCTCAGATGACCTCAAGCTTGCAGCGTCAGG
AGAAGGGGGCTTGCAGGAGCTTCCGGCCACTTCGAGAACCAGAAAGTATGATGATGGTTTCTGCAGCGTC
AAGGACTCCCAAGCTGCCCTGCCAAAATATGTGCTCATCAACTGGGTTGGTGAGGATGTGCCTGATGCC
GAAAATGTGCTTGCAGCAGTGTGTGGCCAAGGTGGTGAATTCTCCAGGGTGTGATGTCATTGTGAA
TGCCAGCAGTGTGAAGACATCGATGCTGGTGCCATTGGGCAGCGGCTCTCCAATGGACTGGCACGGCTC
TCCAGCCAGTATTGCACCGCTGCGCCTTCGGGAGGATGAAAATGCTGAACCGTGGGTACCACCTACC
AGAAGACGGATGCAGCAGTGGAGATGAAGCGGATTAACCGTGAGCAGTTTTGGGAGCAGGCCAAGAAGGA
GGAAGAGCTGCGGAAGGAGGAGGAGCGGAAGAAGGCTCTGGACGCCAGGCTCAGGTTTGAACAGGAACGG
ATGGAGCAGGAGCGGCAGGAGCAGGAAGAAGCTGAGCGGCGCTACCGGGAGCGGGAGCAGCAGATTGAGG
AGCACAGGAGGAAACAGCAGAGTCTGGAAGCTGAAGAAGCCAAGAGGAGGTTAAAGGAGCAGTCTATCTT
TGGTGACCAGCGGGATGAAGAGGAAGAGTCCCAGATGAAGAAGTCGGAGTCAGAGGTGGAGGAGCGGCT
GCCATCATTGCCAGCGGCTGATAACCCACGGGAGTTCTTCCAGACAGCAGGAACGAGTGGCATCGGCT
CTGGTGGCAGCTGTGACGCGCTGCGCCTGCACCTTCAACCACCGACCAGGCAGCCACCTGGACAGCCA
CCGGAGGATGGCACCCTCCTATTCACCCGGAGCCCATCTGATTCCAGCACAGCCTTACCCCCATC
GCTGAGCAGATCGAGAGGGCCCTGGATGAGGTACATCCTCGCAGCCTCCACCTCCACCTCCACCCCTC
CACCAACTCAAGAGGCCAGGAGACTACCCAAGCCTGGATGAAGAGCTCAGCAAGGAGGCCAAAGTAAC
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AGCAGCCCCCTGGAGGACTCGATGTGCACAGAATCTCCAGAGCAGGCTGCCCTGGCTGCCCTGCGGAGC
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TGACACCCTATTGCCAACACGTACCCCTGCCGCTGCCAGCCTCATTGATCTATGGCCTGGCAACGGG
GAAGAGGCTCAACACTTCAGGCTGAACCCAGGGTGCCACACCACCTCAGGTGCTGAGGCTCCCTGG
CAGAGGTGCCCTGCTGAATGAGGCGCTCAGGAGCCGCTGCCGCGGTAGGCGAAGGCTGTGCTAACCT
TCTTAATTTTATGAGCTGCCAGAACCTCCAGCCACCTTCTGTGACCCAGAGGAGGAAGTAGGAGAAACG
CTGGCTGCCTCCAGGTCTAATATGCCCTCAGCTCTAGAGGAGGTAGATCAGGTGCTGGAGCAGGAGC
TGGAGCCAGAACCTCACCTGCTGACCAATGGAGAGACCTCAAAAGGAGGGGACCCAGGCCAGCGAAGG
ATACTTCACTCAGTCACAGGAGGAAGAGTTCGCCCAATCAGAAGAGCCATGTGCAAAGGTTCCGCTCCT
GTATTTTACAACAAGCTCCAGAAATCGACATCACCTGCTGGGATGCAGACCCAGTTCCTGAAGAGGAAG
AGGGCTTCGAGGGTGGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209840 protein sequence
Red=Cloning site Green=Tags(s)

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MAGVSFSGHRLELLAAYEEVIREESAADWALTYEDGSDDLKLAASGEGGLQELSGHFENQKVMYGFCSV
KDSQAALPKYVLINWVGEDVPDARKCACASHVAKVAEFFQGVDIVNASSVEDIDAGAIGQRLSNGLARL
SSPVLHRLRLREDENAEPVGTYYQKTDAAVEMKRINREQFWEQAKKEEELRKEEERKKALDARLRFEQER
MEQERQEERERRREREREQQIEEHRRKQSQLEAEEAKRRLKEQSIFGDQRDEEEESQMKKSESEVEEAA
AIIAQRPDNPREFFRQQERVASASGGSCDAPAPFPNHRPGSHLDSHRRMAPTPIPTRSPSDSSTASTPI
AEQIERALDEVTSSQPPPPPPPPPTQEAQETTPSLDEELSKAKVTAAPVWAGCAAEPQAQEPPLLQ
SSPLEDSMCTESPEQAALAAPAEPAAASVTSVADVHAADTIETTTATDITDIANNVTPAAASLIDLWPGNG
EEASTLQAEPRVTPPSGAESLAEVPLLNEAAQEPLPPVGECCANLLNFDLPEPPATFCDEPEEVGET
LAASQVLTPMSALEEVDQVLEQLEPEPHLLTNGETTQKEGTQASEGYFSQSQEEFAQSEEPKAVPPP
VFYKPKPEIDITCWDADVPVEEEEGFEGGD
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_019813

ORF Size: 1983 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: [NM_019813.4](#)

RefSeq Size: 2906 bp

RefSeq ORF: 1983 bp

Locus ID: 56320

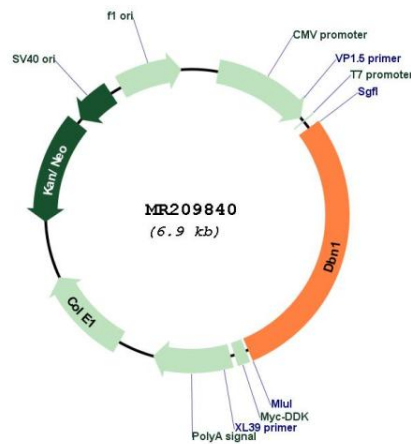
UniProt ID: [Q9QXS6](#)

Cytogenetics: 13 30.06 cM

MW: 72.4 kDa

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]

Product images:



Circular map for MR209840