

Product datasheet for **MC215709**

Dbnl (NM_013810) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dbnl (NM_013810) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dbnl
Synonyms:	Abp1; mAbp1; SH3P7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC215709 representing NM_013810
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGTGAACCTGAGCCGGAACGGGCGCGCTGCAGGAGGCCTACGTGCGCGTAGTCACCGAGAAAT
 CCCCGACCGACTGGGCTCTTTTACCTATGAAGGCAACAGCAATGACATCCGTGTGGCTGGCACAGGAGA
 GGGAGGCCTGGAGGAGCTGGTGAAGAGCTCAACAGCGGAAGGTGATGTACGCCTTCTGACGGTGAAG
 GACCCCAACTCCGGCCTGCCAAGTTTGTCTCATCAACTGGACAGGAGAGGGTGTGAATGATGTGCGGA
 AAGGAGCATGTGCCAACACGTGACACCATGGCCAATTCTGAAGGGTGGCCACGTGACCATCAATGC
 CCGGGCCGAGGAGGTGTGGAGCCTGAGTGCATCATGGAGAAGGTTGCCAAGGCCTCTGGGGCCAACTAC
 AGCTTCCATAAAGAAAGCACCTCCTCCAGGATGTAGGGCCGAGGCCCCAGTGGGCTCTGTGTACCAGA
 AGACCAATGCCATATCTGAGATCAAGAGAGTCGGCAAGGATAACTTCTGGCCAAAGCTGAGAAGGAAGA
 AGAGAACCGCCGCTGGAGGAGAAGCGGCGTGCCGAAGAGGAGCGGCAGCGGTTGGAGGAGGAGCGACGA
 GAGCGGGAGCTGACAGGAGCTGCCGACGTGAGCAGCGCTACCAGGAACAGCACAGATCAGCTGGAGCCC
 CGAGCAGGACAGGTGAGCCAGAGCAGGAAGCCGTTTCAAGGACCAGACAGGAGTGGGAGTCTGTGGGCA
 GCAGGCCCCACCCACGAGAGATTTTCAAGCAGAAGGAAGGGCAATGTCCACCACCTCTGTACCAGC
 TCGCAGCCGGGCAAGCTGAGGAGCCCCTTCTGCAGAAGCAACTCAACCAGAAACCTCTACGGCC
 GAGAGCCACAGCTCCTGTCTCCCGCCTGCAGCAGGTGTCTGTGAGGAGCCAGCGCCTAGCACTCTGTC
 TTCTGCCAGACAGAAGAAGAACCTACATATGAAGTACCCAGAGCAGGACACCCTCTATGAGGAACCA
 CCACTGGTACAGCAGCAAGGGGCTGGCTCCGAACATTGACAACATGACAGCCAGGGCTTCAGTG
 GACAAGGCTGTGCGCCCGGCCCTTGTATGACTACCAGGCAGCTGATGACACCGAGATCTCTTTGACCC
 TGAGAACCTAATCACAGGCATCGAGGTGATTGACGAAGGCTGGTGGCGAGGCTATGGGCCGAGGCCAC
 TTTGCATGTTTCTGCCAACTACGTGGAGCTCATAGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_013810

Insert Size: 1302 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: [NM_013810.3](#), [NP_038838.1](#)

RefSeq Size: 2360 bp

RefSeq ORF: 1302 bp

Locus ID: 13169

UniProt ID: [Q62418](#)

Cytogenetics: 11 3.87 cM

Gene Summary: Adapter protein that binds F-actin and DNM1, and thereby plays a role in receptor-mediated endocytosis. Plays a role in the reorganization of the actin cytoskeleton, formation of cell projections, such as neurites, in neuron morphogenesis and synapse formation via its interaction with WASL and COBL. Does not bind G-actin and promote actin polymerization by itself. Required for the formation of organized podosome rosettes. May act as a common effector of antigen receptor-signaling pathways in leukocytes. Acts as a key component of the immunological synapse that regulates T-cell activation by bridging TCRs and the actin cytoskeleton to gene activation and endocytic processes.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) uses a different splice site in its 3' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.