

Product datasheet for **MR223176**

Dbnl (NM_001146308) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dbnl (NM_001146308) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR223176 representing NM_001146308
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTGAACCTGAGCCGGAACGGGCGGCGCTGCAGGAGGCCTACGTGCGCGTAGTCACCGAGAAAT
 CCCGACCGACTGGGCTCTTTTACCTATGAAGGCAACAGCAATGACATCCGTGTGGCTGGCACAGGAGA
 GGGAGGCCTGGAGGAGCTGGTGAAGAGCTCAACAGCGGAAGGTGATGTACGCCTTCTGCAAGGTGAAG
 GACCCCAACTCCGGCCTGCCAAGTTTGTCTCATCAACTGGACAGGAGAGGGTGTGAATGATGTGCGGA
 AAGGAGCATGTGCCAACACGTGACACCATGGCCAATTCTGAAGGTGCCACGTGACCATCAATGC
 CCGGGCCGAGGAGGTGTGGAGCCTGAGTGCATCATGGAGAAGGTTGCCAAGGCCTCTGGGGCCAACTAC
 AGCTTCCATAAGGAAAGCACCTCCTCCAGGATGTAGGGCCGAGGCCCCAGTGGGCTCTGTGTACCAGA
 AGACCAATGCCATATCTGAGATCAAGAGAGTCGGAAGGATAACTTCTGGCCAAAGCTGAGAAGGAAGA
 AGAGAACCGCCGCTGGAGGAGAAGCGGCTGCCGAAGAGGAGCGCAGCGGTTGGAGGAGGAGCGACGA
 GAGCGGGAGCTGCAAGGAGCTGCCGACGTGAGCAGCGCTACCAGGAACAGCACAGATCAGCTGGAGCCC
 CGAGCCCTTCCAGCAGGACAGGTGAGCCAGAGCAGGAAGCCGTTTCAAGGACCAGACAGGAGTGGGAGTC
 TGCTGGGACGAGGCCCCACACCCACGAGAGATTTTCAAGCAGAAGGAAAGGGCAATGTCCACCACCTCT
 GTCACCAGCTCGCAGCCGGCAAGCTGAGGAGCCCTTCTGCAGAAGCAACTCACTCAACCAGAAACCT
 CCTACGGCCGAGAGCCCACAGCTCCTGTCTCCGGCCTGCAGCAGGTGTCTGTGAGGAGCCAGCGCTAG
 CACTCTGTCTTCTGCCAGACAGAAGAAGCACTACATATGAAGTACCCAGAGCAGGACACCTCTAT
 GAGGAACCACTGGTACAGCAGCAAGGGCTGGCTCCGAACACATTGACAACATACATGACAGCCAGG
 GCTTCAGTGGACAAGGGCTGTGCGCCGGCCTTGTATGACTACCAGGCAGCTGATGACACCGAGATCTC
 CTTTGACCCTGAGAACCTAATCACAGGCATCGAGGTGATTGACGAAGGCTGGTGGCGAGGCTATGGCCCT
 GACGGCCACTTTGGCATGTTTCTGCCAACTACGTGGAGCTCATAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223176 representing NM_001146308
 Red=Cloning site Green=Tags(s)

MAVNLSRNGPALQEAYVRVVEKSPDWDALFTYEGNSNDIRVAGTGEGGLEELVEELNSGKVMYAFCRVK
 DPNSGLPKFVLINWTGEGVNDVRKGACANHVSTMANFLKGAHVVINARAEEDVEPECIMEKVAKASGANY
 SFHKESTSFQDVGPQAPVGSVYQKTNAISEIKRVGKDNFWAKAEKEEENRRLEEKRRAEERQRLEEERR
 ERELQEAARREQRYQEQHRSAGAPSPSSRTGEPEQEA VSRTRQEWESAGQQAPHPREIFKQKERAMSTTS
 VTSSQPGKLRSPFLQKQLTQPETSYGREPTAPVSRPAAGVCEEPAPSTLSSAQTEEEPTYEVPPEQDTLY
 EEPPLVQQGAGSEHIDNYMQSQFSGQLCARALYDYQAADDEISFDPENLITGIEVIDEGWWRGYGP
 DGHFGMFPANYVELIE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9075_b07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001146308

ORF Size: 1308 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_001146308.1](#), [NP_001139780.1](#)

RefSeq Size: 2369 bp

RefSeq ORF: 1311 bp

Locus ID: 13169

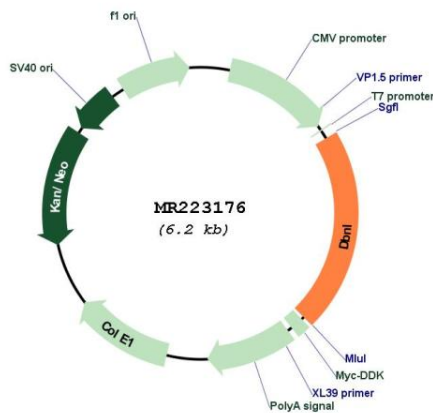
UniProt ID: [Q62418](#)

Cytogenetics: 11 3.87 cM

MW: 48.7 kDa

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]

Product images:



Circular map for MR223176