

## Product datasheet for **MG223176**

### Dbnl (NM\_001146308) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dbnl (NM\_001146308) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Dbnl  
**Synonyms:** Abp1; mAbp1; SH3P7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223176 representing NM\_001146308  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTGAACCTGAGCCGGAACGGGCCGGCGCTGCAGGAGGCCTACGTGCGCGTAGTCACCGAGAAAT  
CCCCGACCGACTGGGCTCTTTTTACCTATGAAGGCAACAGCAATGACATCCGTGTGGCTGGCACAGGAGA  
GGGAGGCTGGAGGAGCTGGTGAAGAGCTCAACAGCGGGAAGGTGATGTACGCCTTCTGCAGGGTGAAG  
GACCCCAACTCCGGCCTGCCAAGTTTGTCTCATCAACTGGACAGGAGAGGGTGTGAATGATGTGCGGA  
AAGGAGCATGTGCCAACCACGTACGACCATGGCCAATTCCTGAAGGGTCCCCACGTGACCATCAATGC  
CCGGGCCGAGGAGGATGTGGAGCCTGAGTGCATCATGGAGAAGGTTGCCAAGGCCTCTGGGCGCACTAC  
AGCTTCCATAAGGAAAGCACCTCCTCCAGGATGTAGGGCCGAGGCCCAAGTGGGCTCTGTGTACCAGA  
AGACCAATGCCATATCTGAGATCAAGAGAGTCGGCAAGGATAACTTCTGGGCCAAAGCTGAGAAGGAAGA  
AGAGAACCGCCGCTGGAGGAGAAGCGCGTGGCAAGAGGAGCGGCAGCGGTTGGAGGAGGAGCGACGA  
GAGCGGGAGCTGCAGGAGGCTGCCGACGTGAGCAGCGCTACCAGGAACAGCACAGATCAGCTGGAGCCC  
CGAGCCCTCCAGCAGGACAGGTGAGCCAGAGCAGGAAGCCGTTTCAAGGACCAGACAGGAGTGGGAGTC  
TGCTGGGCAGCAGGCCCCACACCACGAGAGATTTTCAAGCAGAAGGAAAGGGCAATGTCCACCACCTCT  
GTCACCGCTCGCAGCCGGCAAGCTGAGGAGCCCTTCTGTCAGAAAGCAACTCAACCAGAAACCT  
CCTACGGCCGAGAGCCACAGCTCCTGTCTCCCGCCTGCAGCAGGTGTCTGTGAGGAGCCAGCGCCTAG  
CACTCTGTCTTCTGCCAGACAGAAGAAGAACCTACATATGAAGTACCCAGAGCAGGACACCCTCTAT  
GAGGAACCACCACTGGTACAGCAGCAAGGGGCTGGCTCCGAACACATTGACAACATGACAGAGCCAGG  
GCTTCAGTGGACAAGGGCTGTGCGCCGGGCTTGTATGACTACCAGGCAGCTGATGACACCGAGATCTC  
CTTTGACCCTGAGAACCTAATCACAGGCATCGAGGTGATTGACGAAGGCTGGTGGCGAGGCTATGGGCT  
GACGGCCACTTTGGCATGTTTCTGCCAACTACGTGGAGCTCATAGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223176 representing NM\_001146308  
Red=Cloning site Green=Tags(s)

MAVNLSRNGPALQEAYVRVVTSEKSPDWDALFTYEGNSNDIRVAGTGGGLEELVEELNSGKVMYAFCRVK  
 DPNSGLPKFVLINWTGEGVNDVRKGACANHVSTMANFLKGAHVVINARAEEEDVEPECIMEKVAKASGANY  
 SFHKESTSFQDVGPOAPVGSVYQKTNAISEIKRVGKDNFWAKAEKEENRRLEEKRRRAEEERQRLLEERR  
 ERELQEAARREQRYSQEQHRSAGAPSPSSRTGEPEQEA VSRTRQEWESAGQQAPHPREIFKQKERAMSTTS  
 VTSSQPGKLRSPFLQKQLTQPETSYGREPTAPVSRPAAGVCEEPAPSTLSSAQTEEEPTYEVPPEQDTLY  
 EEPPLVQQQGAGSEHIDNYMQSQGSGGQLCARALYDYQAADDTEISFDPENLITGIEVIDEGWWRGYGP  
 DGHFGMFANYVELIE

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**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

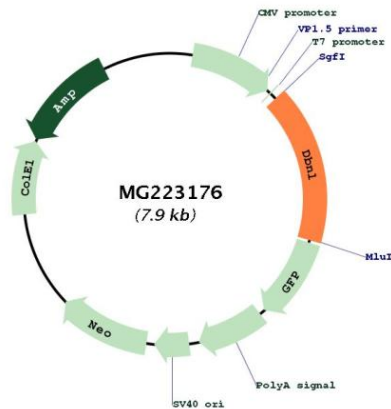
**Locus ID:** 13169

**UniProt ID:** [Q62418](#)

**Cytogenetics:** 11 3.87 cM

**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 MG223176