

Product datasheet for MR223599

Dbnl (NM_001146309) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Dbnl (NM_001146309) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Dbnl |
| Synonyms: | Abp1; mAbp1; SH3P7 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >MR223599 representing NM_001146309 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGAACCTGAGCCGGAACGGCCGGCGCTGCAGGAGGCCTACGTGCGCGTAGTCACCGAGAAAT
CCCCGACCGACTGGGCTCTTTTACCTATGAAGGCAACAGCAATGACATCCGTGTGGCTGGCACAGGAGA
GGGAGGCTGGAGGAGCTGGTGAAGAGCTCAACAGCGGAAGGTGATGTACGCCTCTGCAGGGTGAAG
GACCCCAACTCCGGCCTGCCAAGTTTGTCTCATCAACTGGACAGGAGAGGGTGTGAATGATGTCCGGA
AAGGAGCATGTGCCAACACGTCAGCACCATGGCCAATTCTGAAGGGTGGCCACGTGACCATCAATGC
CCGGGCGGAGGAGGATGTGGAGCCTGAGTGCATCATGGAGAAGGTTGCCAAGGCCTCTGGGGCAACTAC
AGCTTCCATAAGGAAAGCACCTCCTCCAGGATGTAGGGCCGACAGGCCCCAGTGGGCTCTGTGTACCAGA
AGACCAATGCCATATCTGAGATCAAGAGAGTCGGCAAGGATAACTTCTGGGCCAAAGCTGAGAAGGAAGA
AGAGAACCGCCGCTGGAGGAGAAGCGGCGTGCCGAAGAGGAGCGGCAGCGGTTGGAGGAGGAGCGACGA
GAGCGGGAGCTGCAGGAGGCTGCCGACGTGAGCAGCGCTACCAGGAACAGCACAGATCAGCTGGAGCCC
CGAGGACAGGTGAGCCAGAGCAGGAAGCCGTTTCAAGGACCAGACAGGAGTGGGAGTCTGCTGGCAGCA
GGCCCCACACCCACGAGAGATTTTCAAGCAGAAGGAAAGGGCAATGTCCACCACCTCTGTACCAGCTCG
CAGCCGGCAAGCTGAGGAGCCCTTCTGCGAAGCAACTCACTCAACCAGAAACCTCCTACGGCCGAG
AGCCACAGCTCCTGTCTCCCGCCTGCAGCAGGTGTCTGTGAGGAGCCAGCGCCTAGCACTCTGTCTTC
TGCCAGACAGAGAAGAAGCCTACATATGAAGTACCCCAAGAGCAGGACACCCCTATGAGGAACCA
CTGGTACAGCAGCAAGGGGCTGGCTCCGAACACATTGACAACATCATGCAGAGCCAGGGCTTCAGTGGAC
AAGGGCTGTGCGCCGGGCTTGTATGACTACCAGGCAGCTGATGACACCGAGATCTCCTTTGACCTGA
GAACCTAATCACAGGCATCGAGGTGATTGACGAAGGCTGGTGGCAGGCTATGGGCTGACGGCCACTTT
GGCATGTTTCTGCCAACTACGTGGAGCTCATAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223599 representing NM_001146309
 Red=Cloning site Green=Tags(s)

MAVNLSRNGPALQEAYVRVVTESPTDVALFTYEGNSNDIRVAGTGGGLEELVEELNSGKVMYAFCRVK
 DPNSGLPKFVLINWTGEGVNDVRKGCANHVSTMANFLKGAHVVINARAEEDVEPECIMEKVAKASGANY
 SFHKESTSFQDVGPQAPVGSVYQKTNAISEIKRVGKDNFWAKAEKEENRRLEEKRRRAEEERQRLEEERR
 ERELQEAARREQRYQEQRHSAGAPRTGEPEQEAVSRTRQEWESAGQQAPHREIFKQKERAMSTTSVTSS
 QPGKLRSPFLQKQLTQPETSYGREPTAPVSRPAAGVCEEPAAPSTLSSAQTEEEPTYEVPPQDTLYEPP
 LVQQQGAGSEHIDNYMQSQGFSGQGLCARALYDYQAADDTEISFDPENLITGIEVIDEGWWRGYGPDGHF
 GMFPANYVELIE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

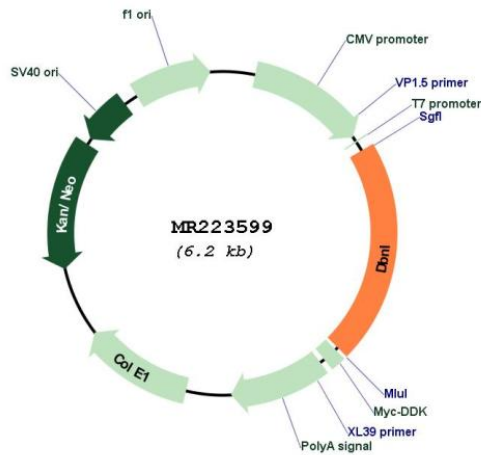
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001146309

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| ORF Size: | 1296 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: | <ol style="list-style-type: none">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_001146309.1 , NP_001139781.1 |
| RefSeq Size: | 2357 bp |
| RefSeq ORF: | 1299 bp |
| Locus ID: | 13169 |
| UniProt ID: | Q62418 |
| Cytogenetics: | 11 3.87 cM |
| MW: | 48.8 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] |