

Product datasheet for **MG223596**

Dbnl (NM_013810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dbnl (NM_013810) 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:	>MG223596 representing NM_013810 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGTGAACCTGAGCCGGAACGGGCCGGCGCTGCAGGAGGCCTACGTGCGCGTAGTCACCGAGAAAT
 CCCCAGCCGACTGGGCTCTTTTACCTATGAAGGCAACAGCAATGACATCCGTGTGGCTGGCACAGGAGA
 GGGAGGCCTGGAGGAGCTGGTGAAGAGCTCAACAGCGGGAAGGTGATGTACGCCTTCTGCAGGGTGAAG
 GACCCCAACTCCGGCCTGCCAAGTTTGTCTCATCAACTGGACAGGAGAGGGTGTGAATGATGTGCGGA
 AAGGAGCATGTGCAACACGTCAGCACCATTGGCCAATTCCTGAAGGGTGCCACGTGACCATCAATGC
 CCGGGCCGAGGAGGATGTGGAGCCTGAGTGCATCATGGAGAAGGTTGCCAAGGCCCTCTGGGGCCAACTAC
 AGCTTCCATAAGGAAAGCACCTCCTCCAGGATGTAGGGCCGAGGCCCAAGTGGGCTCTGTGTACCAGA
 AGACCAATGCCATATCTGAGATCAAGAGAGTCGGAAGGATAACTTCTGGGCCAAAGCTGAGAAGGAAGA
 AGAGAACCGCCGCTGGAGGAGAAGCGCGTGCCGAAGAGGAGCGGCAGCGGTTGGAGGAGGAGCGACGA
 GAGCGGGAGCTGCAGGAGGCTGCCGACGTGAGCAGCGCTACCAGGAACAGCACAGATCAGCTGGAGCCC
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 GGCCCCACACCCACGAGAGATTTTCAAGCAGAAGGAAAGGGCAATGTCCACCACCTCTGTACCAGCTCG
 CAGCCGGGCAAGCTGAGGAGCCCTTCTGCAGAAGCAACTCACTCAACCAGAAACCTCCTACGGCCGAG
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 CTGGTACAGCAGCAAGGGGCTGGCTCCGAACACATTGACAACTACATGCAGAGCCAGGGCTTCAGTGGAC
 AAGGGCTGTGCGCCCGGCTTGTATGACTACCAGGCAGCTGATGACACCGAGATCTCCTTTGACCTGA
 GAACCTAATCACAGGCATCGAGGTGATTGACGAAGGCTGGTGGCAGGCTATGGGCTGACGGCCACTTT
 GGCATGTTTCTGCCAACTACGTGGAGCTCATAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG223596 representing NM_013810
 Red=Cloning site Green=Tags(s)

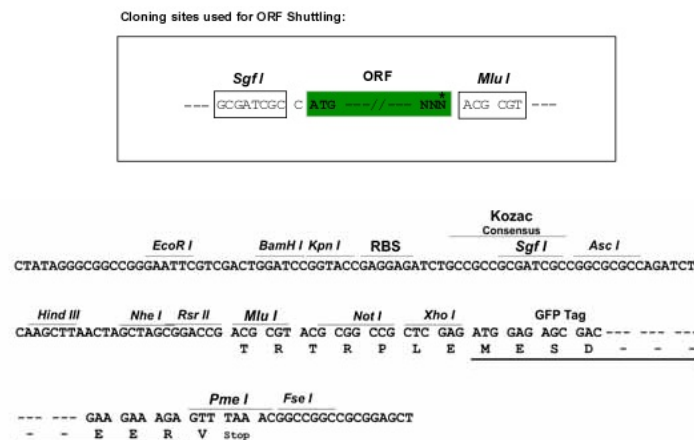
MAVNLSRNGPALQEAYVRVTEKSPTDWALFTYEGNSNDIRVAGTGEGGLEELVEELNSGKVMYAFCRVK
 DPNSGLPKFVLINWTGEGVNDVRKGACANHVSTMANFLKGAHV TINARAEEDVEPECIMEKVAKASGANY
 SFHKESTSFQDVGPQAPVGSVYQKTNAISEIKRVGKDNFWAKAEKEENRRLEEKRRAEERQRL EEERR
 ERELQEAAARREQRYQEQRHSAGAPRTGEPEQEAVSRTRQEWESAGQQAPHREIFKQKERAMSTTSVTSS
 QPGKLRSPFLQKQLTQPETSYGREPTAPVSRPAAGVCEEPA PSTLSSAQTEEEPTYEVPPEQDTLYEPP
 LVQQQGAGSEHIDNYMQSQGFSGQGLCARALYDYQAADDTEISFDPENLITGIEVIDEGWWRGYGPDGHF
 GMFPANYVELIE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_013810

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013810.3](#), [NP_038838.1](#)

RefSeq Size: 2360 bp

RefSeq ORF: 1302 bp

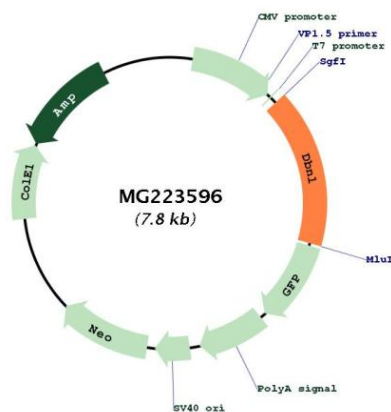
Locus ID: 13169

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]

Product images:



Circular map for MG223596