

Product datasheet for **MG207643**

Bin1 (NM_001083334) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bin1 (NM_001083334) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bin1
Synonyms:	ALP-1; Amphl; BRAMP-2; SH3P9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207643 representing NM_001083334
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGAGATGGGGAGCAAGGGGTGACGGCGGGGAAGATCGCCAGCAACGTACAGAAGAAGCTGACCC
 GAGCGCAGGAGAAGGTCCTGCAGAACTGGGGAAGGCGGACGAGACGAAGGACGAGCAGTTTGAGCAGTG
 TGTCAGAACTTCAATAAGCAGCTGACAGAGGGTACCCGGCTGCAGAAGGATCTTCGGACCTATCTGGCT
 TCTGTTAAAGCGATGCACGAAGCCTCCAAGAAGCTGAGTGAGTGTCTTCAGGAGGTGATGAGCCCGAGT
 GGCCTGGCAGGGATGAAGCAAACAAGATTGCAGAGAACAATGACCTACTCTGGATGGACTACCACCAGAA
 GCTGGTGGACCAGGCTCTGCTGACCATGGACACCTACCTAGGCCAGTTCCTGATATCAAGTCGCGCATT
 GCCAAGCGGGGGCGGAAGCTGGTGGACTATGACAGTGCCCGCACCCTATGAGTCTCTTCAAACCGCCA
 AAAAGAAGGATGAAGCCAAAATTGCCAAGGCAGAAGAGGAGCTCATCAAAGCCCAGAAGGTGTTGAGGA
 GATGAACGTGGATCTGCAGGAGGAGCTGCCATCCCTGTGGAACAGCCGTGATAGTTTCTATGTCAACACG
 TTCCAGAGCATCGCGGTCTGGAGGAAAATTCATAAAGAGATGAGTAAGCTCAATCAGAACCTCAATG
 ATGTCCTGGTCAGCCTAGAGAAGCAGCAGGGAGCAACACCTTCACAGTCAAGGCCCAACCCAGTGACAA
 TGCCCCCTGAGAAAGGGAACAAGAGCCCGTCACCTCCTCCAGATGGCTCCCTGCTGCTACCCCTGAGATC
 AGAGTGAACCATGAGCCAGAGCCGGCCAGTGGGCCTCACCCGGGGCTACCATCCCCAAGTCCCCATCTC
 AGCTCCGAAAGGCCACCTGTCCTCCGCCTCCCAAACACCCCATCCAAGGAGATGAAGCAGGAGCA
 GATTCTCAGCCTTTTTGATGACGCATTTGTCCCTGAGATCAGCGTGACCACCCCTCCAGCCAGCAGAG
 GCCTCCGAGGTGGTGGTGGAGCCAGGAGCCAGGGGAGACAGCCAGTGAAGCAACCTCCAGCTCTC
 TTCCGGCTGGTGGTGGAGACCTTCTCCGCACTGTGAATGGGGCGGTGGAGGGCAGCGTGGGACTGG
 ACGCTTGACCTGCCCCGGGATTATGTTCAAGGTTCAAGCCCAGCATGATTACACGGCCACTGACACT
 GATGAGCTGCAACTCAAAGCTGGCGATGTGGTGTGGTATTCTTTCCAGAACCAGAGGAGCAGGATG
 AAGGCTGGCTCATGGGTGTGAAGGAGAGCGACTGGAATCAGCACAAGGAAGTGGAGAAATGCCGCGGCGT
 CTTCCCGGAGAATTTTACAGAGCGGGTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207643 representing NM_001083334
 Red=Cloning site Green=Tags(s)

MAEMSGKGVTAGKIASNVQKKLTRAQEKVLQKLGADETKDEQFEQCVQNFNKQLTEGTRLQKDLRTYLA
 SVKAMHEASKKLSECLQEVYEPWPGRDEANKIAENNDLLWMDYHQKLVQDALLTMDTYLGQFPDIKSRI
 AKRGRKLVYDYSARHHYESLQTAKKKDEAKIAKEEELIKAQKVFEE MNVDLQEELPSLWNSRVGFVYNT
 FQSIAGLEENFHKEMSKLNQNLNDVLSLEKQHGNTFTVKAQPSDNAPEKGNKSPSPPPDGSPAATPEI
 RVNHEPEPASPASPGATIPKSPSQLRKPPVPPPKHTPSKEMKQEQLSLFDDAFVPEISVTTSPQPAE
 ASEVVGGAQEPGETAASEATSSSLPAVVVETFSATVNGAVEGSAGTGRDLPPGFMFVKVQAQHDYTATDT
 DELQLKAGDVVLVIPFQNPPEEQDEGWLGMVKESDWNQHKLEKCRGVFPENFTEVQ

TRTRPLE - GFP Tag - V

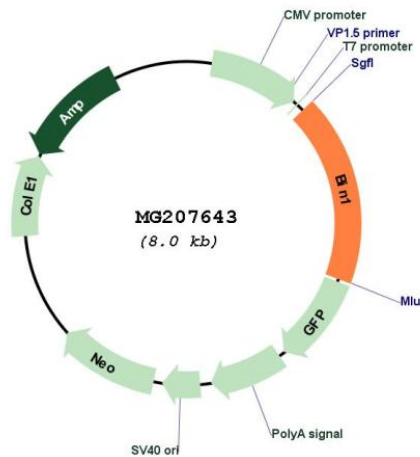
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001083334

ORF Size: 1431 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_001083334.1](#), [NP_001076803.1](#)

RefSeq Size: 2135 bp

RefSeq ORF: 1434 bp

Locus ID: 30948

Cytogenetics: 18 18.01 cM

Gene Summary: Is a key player in the control of plasma membrane curvature, and membrane shaping and remodeling. Required in muscle cells for the formation of T-tubules, tubular invaginations of the plasma membrane that function in depolarization-contraction coupling. Required in muscle cells for the formation of T-tubules, tubular invaginations of the plasma membrane that function in depolarization-contraction coupling (PubMed:12183633). Is a negative regulator of endocytosis (By similarity). Is also involved in the regulation of intracellular vesicles sorting, modulation of BACE1 trafficking and the control of amyloid-beta production (PubMed:12668730, PubMed:27179792). In neuronal circuits, endocytosis regulation may influence the internalization of PHF-tau aggregates (By similarity). May be involved in the regulation of MYC activity and the control cell proliferation (By similarity).[UniProtKB/Swiss-Prot Function]