

Product datasheet for **MR207643**

Bin1 (NM_001083334) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bin1 (NM_001083334) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bin1
Synonyms:	ALP-1; Amphl; BRAMP-2; SH3P9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207643 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGAGATGGGGAGCAAGGGGTGACGGCGGGAAGATCGCCAGCAACGTACAGAAGAAGCTGACCC
 GAGCGCAGGAGAAGGTCCTGCAGAACTGGGGAAGGCGGACGAGACGAAGGACGAGCAGTTTGAGCAGTG
 TGTCAGAACTTCAATAAGCAGCTGACAGAGGGTACCCGGCTGCAGAAGGATCTTCGACCTATCTGGCT
 TCTGTTAAAGCGATGCACGAAGCCTCCAAGAAGCTGAGTGAGTGTCTTCAGGAGGTGATGAGCCCGAGT
 GGCCTGGCAGGGATGAAGCAAACAAGATTGCAGAGAACAATGACCTACTCTGGATGGACTACCACCAGAA
 GCTGGTGGACCAGGCTCTGCTGACCATGGACACCTACCTAGGCCAGTTCCTGATATCAAGTCGCGCATT
 GCCAAGCGGGGGCGGAAGCTGGTGGACTATGACAGTGCCCGGCACCACTATGAGTCTCTTCAAACCGCCA
 AAAAGAAGGATGAAGCCAAAATTGCCAAGGCAGAAGAGGAGCTCATCAAAGCCCAGAAGGTGTTGAGGA
 GATGAACGTGGATCTGCAGGAGGAGCTGCCATCCCTGTGGAACAGCCGTGATAGTTTCTATGTCAACACG
 TTCCAGAGCATCGCGGTCTGGAGGAAAACCTCCATAAAGAGATGAGTAAGCTCAATCAGAACCTCAATG
 ATGTCCTGGTCAGCCTAGAGAAGCAGCAGGGAGCAACACCTTCACAGTCAAGGCCCAACCCAGTGACAA
 TGCCCCCTGAGAAAGGGAACAAGAGCCCGTCACCTCCTCCAGATGGCTCCCTGCTGCTACCCCTGAGATC
 AGAGTGAACCATGAGCCAGAGCCGGCCAGTGGGCCTCACCCGGGGCTACCATCCCCAAGTCCCCATCTC
 AGCTCCGAAAGGCCACCTGTCCTCCGCCTCCCAAACACCCCATCCAAGGAGATGAAGCAGGAGCA
 GATTCTCAGCCTTTTTGATGACGCATTTGTCCCTGAGATCAGCGTGACCACCCCTCCAGCCAGCAGAG
 GCCTCCGAGGTGGTGGTGGAGCCAGGAGCCAGGGGAGACAGCAGCCAGTGAAGCAACCTCCAGCTCTC
 TTCCGGCTGTGGTGGTGGAGACCTTCTCCGCAACTGTGAATGGGGCGGTGGAGGGCAGCGTGGGACTGG
 ACGCTTGACCTGCCCCGGGATTCATGTTCAAGGTTCAAGCCCAGCATGATTACACGGCCACTGCACT
 GATGAGCTGCAACTCAAAGCTGGCGATGTGGTGTGGTATTCTTTCCAGAACCAGAGGAGCAGGATG
 AAGGCTGGCTCATGGGTGTGAAGGAGAGCGACTGGAATCAGCACAAAGAACTGGAGAAATGCCGCGGCGT
 CTTCCCGGAGAATTTTACAGAGCGGGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207643 protein sequence
 Red=Cloning site Green=Tags(s)

MAEMGSKGVTAGKIASNVQKKLTRAQEKVLQKLGKADETKDEQFEQCVQNFNKQLTEGTRLQKDLRTYLA
 SVKAMHEASKKLSECLQEVYEPWPGRDEANKIAENNDLLWMDYHQKLVQALLTMDTYLQGFPDIKSRI
 AKRGRKLVYDYSARHHYESLQTAKKKDEAKIAKAEELIKAQKVFEEMNVDLQEELPSLWNSRVGFYVNT
 FQSIAGLEENFHKEMSKLNQNLNDVLSLEKQHGSNFTTVKAQPSDNAPEKGNKSPSPDPGSPAATPEI
 RVNHEPEPASGASPGATIPKSPSQLRKPPVPPPKHTPSKEMKQEQILSLFDDAFVPEISVTTPSQPAE
 ASEVVGGAQEPGETAASEATSSSLPAVVVETFSATVNGAVEGSAGTGRDLDPGFMFKVQAQHDYTATDT
 DELQLKAGDVVLVIPFQNPPEEQDEGWLGMVKESDWNQHKLEKCRGVFPENFTEVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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.

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

RefSeq: [NM_001083334.1](#), [NP_001076803.1](#)

RefSeq Size: 2135 bp

RefSeq ORF: 1434 bp

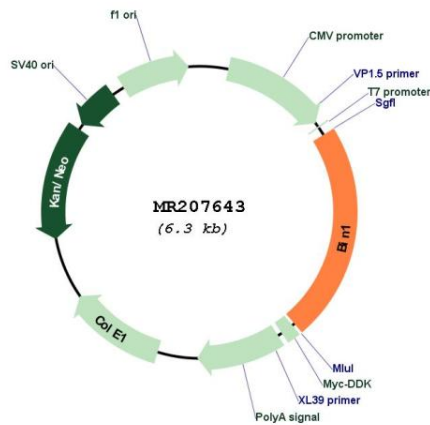
Locus ID: 30948

Cytogenetics: 18 18.01 cM

MW: 52.8 kDa

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]

Product images:



Circular map for MR207643