

Product datasheet for MR225843

Bves (NM_024285) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bves (NM_024285) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bves
Synonyms:	mBVES; Pop1; Popdc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225843 representing NM_024285 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAATCCACGGAGTCCATCCCCTGGCACAGTCAACTGTAGCAGGTTTTACATCTGAGTTAGAAAATC
TCACACCCGTGCCTTCTAATGAGACCACCTGTGAGAACTGGCGAGAGATCACCATCTGGTTTTTCATGT
AGCAAACGTTTGCTTTCAGTTGGTTTGTCTAATCCCACCCTTCCACCTCCATATGATACTGCTCAGA
GTGATGTTGTCTCTAGGATGTACCCTTTATGTGGTCTGGGCCACTCTCTACCGCTGTGCCTGGATGTGA
TGATCTGGAACCTCGGTGTTCTTGGGTATCAATATTTTGCATCTTTCATATCTTTTGTACAAGAAAAGACC
GGTCAAAATTGAAAAGGAGCTGGGTGGTGTCTACCATCGGTTGTTGAACCACTCCGAGTCCCTCCGGAT
TTGTTTAGAAGGTTAACCGGACAGTTTTGTATGATCCAGACCTTGAAAAGGGGCCAGTTTTACGCCACAG
AGGACAAAACCTCAGTTGATGATCGTCTTAGTATTCTCCTAAAAGGAAGAATGAAGGTCTCCTATCGAGG
ACATTTTCTGCATAACATTTACCCGTGTGCCTTATAGATTCTCCCGAATTCAGATCAACGCAGATGCAC
AAAGGCGAAAAATCCAGGTCACCATGTTGCAGATGATAACTGCAGGTTCTTATGCTGGTCAAGAGAAA
GACTGACTTACTTTCTGGAGTCAGAGCCTTTCTGTATGAAATTTTTAGGTACCTTATAGAAAAGACAT
TACAAATAAGCTGTACTCACTGAATGACCCTACTTTAAATGATAAGAAAAGTTAAGAAGCTGGAGCCCCAG
ATGAGCCTTGACACAGATCTCCATGCTGGAGATGAGGAACAGTATCACCAGCTCCAGCGACGGCGAGG
ACGGCCTGCACCACTTTCTGCGGGCTCCTCCAGCACGGCGTCTCTCCCATGTCCTCCCGCAGCAGCG
AGCCTCTGCCAAGATGAAGCCAATCGAGGAAGGGGTAGAAGATGACGATGAGGTCTTTGTGTCTCCAGAC
GCACTCAAAGTCCATCAGTTGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225843 representing NM_024285
 Red=Cloning site Green=Tags(s)

MNSTESIPLAQSTVAGFTSELES LTPVPSNETTCENWREIHHLVFHVANVCFVAVGLLIPTTLHLHMILLR
 VMLSLGCTLYVWATLYRCALDVMIWNSVFLGINILHLSYLLYKKRPVKIEKELGGVYHRLFEP LRVPPD
 LFRRLTGQFCMIQTLKRGQVYATEDKTSVDDRLSILLKGRMKVSYRGHFLHNIYPCAFIDSPEFRSTQMH
 KGEKFQVTIVADDNCRFLCWSRERLTYFLESEPFLEYEIFRYLIGKDITNKLYSLNDPTLNDKVKKLEPQ
 MSLCTQISMLEMRNSITSSSDGEDGLHHFLRGSSSTASLPMSSPQQRASAKMKPIEEGVEDDDEVFVSPD
 ALKVHQLP

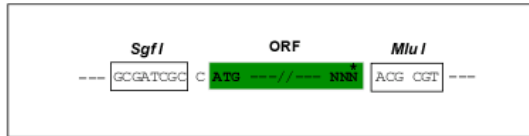
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_024285

ORF Size: 1074 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_024285.3](#)

RefSeq Size: 1607 bp

RefSeq ORF: 1077 bp

Locus ID: 23828

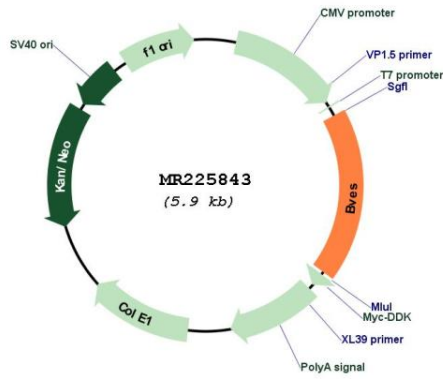
UniProt ID: [Q9ES83](#)

Cytogenetics: 10 23.47 cM

MW: 41.5 kDa

Gene Summary: Cell adhesion molecule involved in the establishment and/or maintenance of cell integrity. Involved in the formation and regulation of the tight junction (TJ) paracellular permeability barrier in epithelial cells (PubMed:16188940). Plays a role in VAMP3-mediated vesicular transport and recycling of different receptor molecules through its interaction with VAMP3 (PubMed:20057356). Plays a role in the regulation of cell shape and movement by modulating the Rho-family GTPase activity through its interaction with ARHGEF25/GEFT (PubMed:18541910). Induces primordial adhesive contact and aggregation of epithelial cells in a Ca(2+)-independent manner. Also involved in striated muscle regeneration and repair and in the regulation of cell spreading (PubMed:11839816). Important for the maintenance of cardiac function. Plays a regulatory function in heart rate dynamics mediated, at least in part, through cAMP-binding and, probably, by increasing cell surface expression of the potassium channel KCNK2 and enhancing current density (PubMed:26642364). Is a caveolae-associated protein important for the preservation of caveolae structural and functional integrity as well as for heart protection against ischemia injury (PubMed:24066022).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225843