

Product datasheet for **MC209671**

Bves (NM_024285) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bves (NM_024285) Mouse Untagged Clone
Tag: Tag Free
Symbol: Bves
Synonyms: mBVES; Pop1; Popdc1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209671 representing NM_024285
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATCCACGGAGTCCATCCCGCTGGCACAGTCAACTGTAGCAGGTTTTACATCTGAGTTAGAAAGTC
TCACACCCGTGCCTTCTAATGAGACCACCTGTGAGAACTGGCGAGAGATTCACCATCTGGTTTTTCATGT
AGCAAACGTTTGTCTTGCAGTTGGTTTGTCTAATCCCACCACTCTCACCTCCATATGATACTGCTCAGA
GTGATGTTGTCTCTAGGATGTACCCTTTATGTGGTCTGGGCCACTCTCTACCGCTGTGCCTTGGATGTGA
TGATCTGGAACCTCGGTGTTCTTGGGTATCAATATTTTGCATCTTTTCATATCTTTTGTACAAGAAAAGACC
GGTCAAAATTGAAAAGGAGCTGGGTGGTGTCTACCATCGGTTGTTTGAACCACTCCGAGTCCCTCCGGAT
TTGTTTAGAAGGTTAACC GGACAGTTTTGTATGATCCAGACCTTGAAGGGGCCAGGTTTACGCCACAG
AGGACAAAACCTCAGTTGATGATCGTCTTAGTATTCTCCTAAAAGGAAGAATGAAGGTCTCCTATCGAGG
ACATTTTCTGCATAACATTTACCCGTGTGCCTTTATAGATTCTCCGAATTCAGATCAACGCAGATGCAC
AAAGGCGAAAAATCCAGGTCACCATTGTTGCAGATGATAACTGCAGGTTCTTATGCTGGTCAAGAGAAA
GACTGACTTACTTTCTGGAGTCAGAGCCTTTTCTGTATGAAATTTTAGGTACCTTATAGGAAAAGACAT
TACAAATAAGCTGTACTCACTGAATGACCCACTTTAAATGATAAGAAAGTTAAGAAGCTGGAGCCCCAG
ATGAGCCTCTGCACACAGATCTCCATGCTGGAGATGAGGAACAGTATCACCAGCTCCAGCGACGGCGAGG
ACGGCCTGCACCACTTTCTGCGGGCTCCTCCAGCACGGCGTCTCTCCCATGTCCTCCCGCAGCAGCG
AGCCTCTGCCAAGATGAAGCCAATCGAGGAAGGGGTAGAAGATGACGATGAGGTCTTTGTGTCTCCAGAC
GCACTCAAAGTCCATCAGTTGCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_024285



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Insert Size:	1077 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_024285.2</u> , <u>NP_077247.1</u>
RefSeq Size:	1607 bp
RefSeq ORF:	1077 bp
Locus ID:	23828
UniProt ID:	<u>Q9ES83</u>
Cytogenetics:	10 23.47 cM
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]