

## Product datasheet for RN203133

### Bves (NM\_001077590) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bves (NM\_001077590) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Bves  
**Synonyms:** Popdc1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN203133 representing NM\_001077590  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGAATTTTACGGAGCCAGCCCACTGGCGCAATCAACTGTGGTGGGTTTCTGCCTGAGTTAGAAAGTC  
TCACCCCGTGCCTTCCAATGAGACCAGTTGTGAAAACGGCGGGAGGTTACCATCTGGTGTTCACGC  
GGCCAAGTTTGTCTCGCAGTTGGTTTGCTAATCCCACCACTCTCCACCTCCATATGATACTGCTCAGA  
GTGATGCTGTCTATAGGATGTACCCTCTACGTGGTCTGGGCCACTCTCTACCGCTGTGCCTTGGATATGA  
TGATCTGGAACCTCGGTGTTCTTGGGTATCAATATTTTGCATCTTTCATATCTTTTGTACAAGAAAAGACC  
GGTCAAGATTGAAAAGGACCTGGGCGGTGTCTACCACCGACTGTTTGAACCCCTCCGAGTCCCTCCGGAT  
TTGTTTAGAAGGCTAACTGGACAGTTTTGTGTGATCCAGACCTTGAAGGGGCCAGGTTTATGCCACGG  
AGGACAAAACCTCAGTTGATGACCGTCTTAGCATTCTCCTAAAGGGAAGAATGAAGTCTCCTATCGAGG  
ACATTTTCTGCATAACATTTACCCGTGTGCCTTATAGATTCTCCTGAATTCAGATCAACGCAGATGCAC  
AAGGGTGAGAAATCCAGGTCAACATTGTTGCGGACGATAACTGCAGGTTTTTATGTGGTTCGAGAGAAA  
GACTGACGTACTTCTGGAGTCAGAGCCTTTCTGTATGAAATTTTTAGGTACCTTATAGGGAAGACAT  
CACAAATAAGCTGTACTCACTGAATGACCCACCTTAAATGATAAAAAAGTGAAGAAGTTGGAGCCCCAG  
ATGAGCCTCAGCACACAGATCTCCATGTGGAGATGAGGAACAGCATCACTAGCTCCAGCGACATCGAGG  
ACGGCCTCCACCACTTCTGCGGGCTCCTCCAGCACGGCTTCTCTCCCATGTCTCCCGCAGCAGCG  
AGCCTCTCCAAGATGAAGCCAATCGAGGAAGGGCTAGAAGATGACGATGAGGTCTTTGTCCGGTGTCT  
CCAGCTCATCAGTTGCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001077590



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<b>Insert Size:</b>	1071 bp
<b>OTI Disclaimer:</b>	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).
<b>RefSeq:</b>	<u>NM_001077590.1</u> , <u>NP_001071058.1</u>
<b>RefSeq Size:</b>	1485 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	365603
<b>UniProt ID:</b>	<u>Q3BCU4</u>
<b>Gene Summary:</b>	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. Plays a role in VAMP3-mediated vesicular transport and recycling of different receptor molecules through its interaction with VAMP3. Plays a role in the regulation of cell shape and movement by modulating the Rho-family GTPase activity through its interaction with ARHGEF25/GEFT. Induces primordial adhesive contact and aggregation of epithelial cells in a Ca(2+)-independent manner. Important for skeletal muscle and heart development. Also involved in striated muscle regeneration and repair and in the regulation of cell spreading (By similarity). 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. Is a caveolae-associated protein important for the preservation of caveolae structural and functional integrity as well as for heart protection against ischemia injury (By similarity).[UniProtKB/Swiss-Prot Function]