

## 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN203133 representing NM_001077590 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGAATTTTACGGAGCCAGCCACTGGCGCAATCAACTGTGGTGGGTTTTCTGCCTGAGTTAGAAAGTC  
TCACACCCGTGCCTTCCAATGAGACCAGTTGTGAAAAGTGGCGGGAGGTTACCATCTGGTGTTCACGC  
GGCCAACGTTTGCTTCGCAGTTGGTTTGCTAATCCCACCACTCTCCACCTCCATATGACTGCTCAGA  
GTGATGCTGTCTATAGGATGTACCCTCTACGTGGTCTGGGCCACTCTCTACCGCTGTGCCTTGGATATGA  
TGATCTGGAACCTCGGTGTTCTTGGGTATCAATATTTTGCATCTTTCATATCTTTGTACAAGAAAAGACC  
GGTCAAGATTGAAAAGGACCTGGGCGGTGTCTACCACCGACTGTTGAACCCCTCCGAGTCCCTCCGGAT  
TTGTTTAGAAGGCTAACTGGACAGTTTTGTGTGATCCAGACCTTGAAAAGGGGCCAGGTTTATGCCACGG  
AGGACAAAACCTCAGTTGATGACCGTCTTAGCATTCTCCTAAAGGGAAGAATGAAGGTCTCCTATCGAGG  
ACATTTTCTGCATAACATTTACCCGTGTGCCTTTATAGATTCTCCTGAATTCAGATCAACGCAGATGCAC  
AAGGGTGAGAAATTCAGGTCAACATTGTTGCGGACGATAACTGCAGGTTTTATGCTGGTCGAGAGAAA  
GACTGACGTACTTTCTGGAGTCAGAGCCTTTCTGTATGAAATTTTATAGGTACCTTATAGGGAAGACAT  
CACAAATAAGCTGTACTCACTGAATGACCCACCTTAAATGATAAAAAAGTGAAGAAGTTGGAGCCCCAG  
ATGAGCCTCAGCACAGATCTCCATGCTGGAGATGAGGAACAGCATCACTAGCTCCAGCGACATCGAGG  
ACGGCCTCCACCACTTCTGCGGGCTCCTCCAGCACGGCTTCTCTCCCATGTCCTCCCCGACGACGG  
AGCCTCTCCCAAGATGAAGCCAATCGAGGAAGGGCTAGAAGATGACGATGAGGTCTTTGTGCCGGTGTCT  
CCAGCTCATCAGTTGCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001077590
<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>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001077590.1, 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>Cytogenetics:</b>	20q13
<b>Gene Summary:</b>	<p>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]</p>