

## Product datasheet for **MC205685**

### **Cby1 (NM\_028634) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cby1 (NM\_028634) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cby1  
**Synonyms:** 1110014P06Rik; arb1; CBY; Pgea1; PGEA14  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC005733  
CGGACGCGTGGGCGGACGCTGGGCGGAAGTGCTGGTGTCTTCTCGCTGGGTGAGGAAGGAGAAGGAAGT  
GCTGGCGTTTCTCACTGAGTTAGGGATGCCTCTCTTTGGCAGCATATTCAGCCCAAAGAAGACCCCTCC  
TCGGAAGTCGGCCTCTCTCTCCAACCTACATTCTTTAGATCGGTCAACGCGGGAAGTGGAGCTGGGGCTC  
GACTATGGAACCTCTACCATGAACCTGGCGGGCAGAGCCTGAAGTTTAAAAACGCCAGTGGGTGGCAG  
ACTCCGTGATTAGTGGGGTGTGGACCGGAGGAACTCAGCGCCTGCGCAAACGAAACCAACAGTTAGA  
AGAAGAAAACAATCTCTGCGGCTGAAAGTGGACATTCTGCTGGACATGCTTTCAGAAACCACTGCTGAG  
TCCACCTAAAGGACAAAGAGCTGGATGAACCTGAAGGTTACCAACCGCAGGAGGAAGTGAAGAGAGCCTG  
GCAGCACTCGCTAGGGGACTGAAAGAGCCAGTACCAGGGGAGGAGGATGCGGCAGAGCCCTTTGATT  
TCCCGTCAGATTAGCAGACTAGGGGAGAGCATTAAACAGGCCCTGGCTCCCTTGGGCAGGGGATAGGGAGG  
AGACACAGGATGGAAGAACCAAGGTGCCAGGCCAGGGCCATAGCCAAGCAAGCACCCAGTCCACCCA  
GGGTGTCATCTAAAACATACCCAGGAAGGTCTAGAAATAATGAGCCTTGGATGCTGTCGCAAGTGAC  
AGCATGTAACCTGTGTCTCAGAATCACCATATTCAGACAGCTGGCAGCTCACCTCTTGACACTGGTG  
TCTGGGGTTTGGCACTCCTCCCAGAGAGCACCTCGCGTAGGGGTGCCAGTAAGTGGCTCTGGGTTGTCT  
GCACCCAGCCCCGGAACCCAGCCATAATCTCTGCTTTAAAGAGCCCTCATCTCAAATCCACA  
GCCTCTTCTGGCATCAGCTTCCCAGCAGCAAGCTCCAGCCTTCCACAGCACACTGTAATTTACTCTTTT  
TTATTAACGGTGTCAATAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_028634  
**Insert Size:** 384 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).



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<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><a href="#">BC005733</a></u> , <u><a href="#">AAH05733</a></u>
<b>RefSeq Size:</b>	1089 bp
<b>RefSeq ORF:</b>	384 bp
<b>Locus ID:</b>	73739
<b>UniProt ID:</b>	<u><a href="#">Q9D1C2</a></u>
<b>Cytogenetics:</b>	15
<b>Gene Summary:</b>	Inhibits the Wnt/Wingless pathway by binding to CTNNB1/beta-catenin and inhibiting beta-catenin-mediated transcriptional activation through competition with TCF/LEF transcription factors. Has also been shown to play a role in regulating the intracellular trafficking of polycystin-2/PKD2 and possibly of other intracellular proteins. Promotes adipocyte and cardiomyocyte differentiation.[UniProtKB/Swiss-Prot Function]