

## Product datasheet for **MG200689**

### **Cby1 (NM\_028634) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cby1 (NM\_028634) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cby1  
**Synonyms:** 1110014P06Rik; arb1; CBY; Pgea1; PGEA14  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200689 representing NM\_028634  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTCTCTTTGGCAGCATATTCAGCCCAAAGAAGACCCTCCTCGGAAGTCGGCCTCTCTCCAACC  
 TACATTCTTTAGATCGGTCAACGCGGAACTGGAGCTGGGGCTCGACTATGGAACCTACCATGAACCT  
 GCGGGGCGAGCCTGAAGTTTAAAACGGCCAGTGGGTGGCAGACTCCGTGATTAGTGGGGTGTGGAC  
 CGGAGGAAACTCAGCGCTGCGCAAACGAAACCAACAGTTAGAAGAAGAAAACAATCTCCTGCGGCTGA  
 AAGTGGACATTCTGCTGGACATGCTTTAGAAACCACTGCTGAGTCCCACCTAAAGGACAAGAGCTGGA  
 TGAAGTGAAGGTTACCAACCGCAGGAGGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200689 representing NM\_028634  
 Red=Cloning site Green=Tags(s)

MPLFGSIFSPKKTPPRKSASLSNLHSLDRSTRELELGLDYGTPTMNLQSLKFENGQWADSVISGGVD  
 RRETQRLRKRNQLEEEENLLRLKVDILLDMLSETTAESHKDKELDELKVTNRRRK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

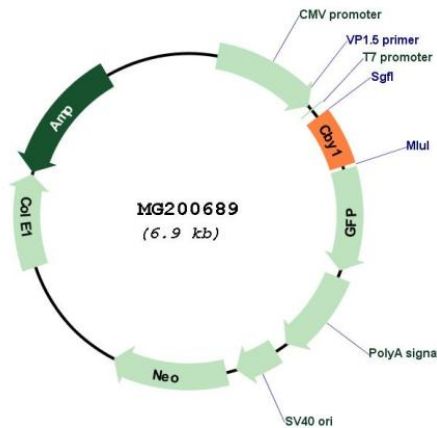


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**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_028634

**ORF Size:**

381 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_028634.3</a></u> , <u><a href="#">NP_082910.1</a></u>
<b>RefSeq Size:</b>	1119 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]