

## Product datasheet for **MG205720**

### Popdc2 (BC064005) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Popdc2 (BC064005) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Popdc2
Synonyms:	AV006127; Pop2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205720 representing BC064005 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGCCAATGGCAGCTCGGTGGCTCAGCTCCTCTGGCAGCCGCCCGTGTGCAGGAGCTGAAACCGG  
ATGTAGAAGGAGCTGTCTATCACCTGGCCAAGTCTTCTTGCTTATGGGCTTTATGGCAGGCAGTGGAGT  
GTATGGATGCTTCTATCTTTTCGGCATCCTGGGCCAGGCTACCTCTGCTGCGTGTGTGGGCTGGTTT  
GATGCTTGTGGACTAGACATCGTCCTTTGGAACGTCCTCCTGACAGTGGCTTGCCTGCTTACAGTGGCAC  
AGCTGGTCTATCGTGTCCGGTGAATACCTCCCGGAGGAATTCAATCTCCTCTACAGGACTGTGCCT  
GCCCTGCAGGTGCCCTGCAGGTCTACAAGGAGATTGTCCACTGCTGCCATGAGCAGGTCTTGACGCTG  
GCCACAGAGCAGACCTACGCTGTGGAGGGGAGACCCCATCAATCGCCTGTCCCTGCTCCTCTCAGGCC  
GGTTCGAGTGAGCCAAGACGGGCAATTTCTGCACTACATCTTTCCGATCAGTTCATGGACTCTCCTGA  
ATGGGAATCACTGCATCCTTCTGAAGAGGGGACCTTCCAGGTGACGCTGACTGCGGAGACCGAATGTAGC  
TACATTTCTGGCCCCGAAAAATCTTTACCTTCTTGAACAGAGAGCGATAACATCTCCCGCTCTTCT  
CAGCCCTGCTGGGCTATGACATCTCGGAGAAGCTCTATACCCTCAATGACAAGCTGTTTGCCAAGTTTG  
GTTACGCTTCGACATCCGCTTCCAGCCTCTACCAGTCTGAGTCCCTCTGCCTCAGACGGGGAACCA  
GAGTCTGAGAAAGATGATGAAGAAGCCCTTGAGGCAGCTGTGCCCTGCTCAGGCCAGGCCCATCTGCA  
TCGTGCCAACACCCCTTGTTCGGCCTCCAGCAACCACCAACTTTCCGTCCTCTGCCCGGGCCAG  
GATGCCCAGGATGCCCAGGCCGACAGCGCAACCTGGGTGAGGACTCCACCAGTCTGGTCTGGAGGAT  
TTTGAGGAGTTTCAGGATCAGAGTCGTTTATGGATTATAGGAGCGATGGGGAGTACATGAGG

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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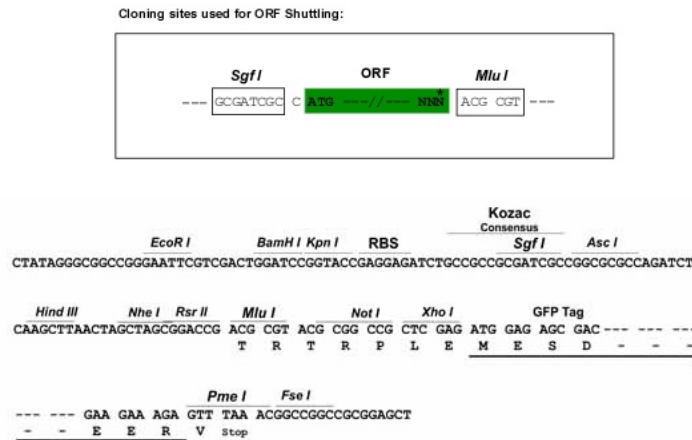
**Protein Sequence:** >MG205720 representing BC064005  
 Red=Cloning site Green=Tags(s)

MSANGSSVAQLLWQPPVCRSWKPDVEGAVYHLANCFLLMGFMAGSGVYGCFYLFGLIGPGYLCCVLWGWF  
 DACGLDIVLWNVLLTVACLLQLAQLVYRVVNTLPEEFNLLYRTLCLPLQVPLQVYKEIVHCHEQVLT  
 ATEQTYAVEGETPINRLSLLSGRVRVSDGQFLHYIFPYQFMDSPEWESLHPSEEGTFQVTLTAETEC  
 YISWPRKNLYLLNRRERYISRLFSALLGYDISEKLYTLNDKLFKFKGLRFDIRLPSLYHVLSPSASDGE  
 ESEKDDEALEAAVSPAQARPICIVPTPPCSAPPATTNFPVPLPRARMPRMPRPDSGNLGEDSTSLVLED  
 FEEVSGSESFMDYRSDGEYMR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC064005

**ORF Size:** 1115 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [BC064005](#), [AAH64005](#)

**RefSeq Size:** 2184 bp

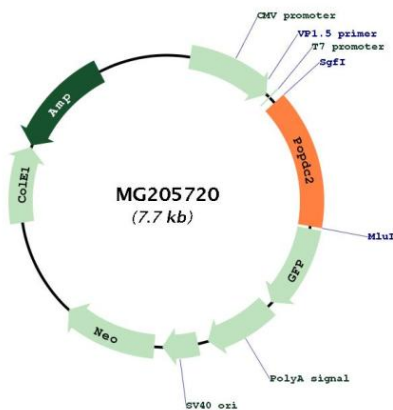
**RefSeq ORF:** 1115 bp

**Locus ID:** 64082

**Cytogenetics:** 16 B3

**Gene Summary:** This gene encodes a member of the Popeye domain containing family of membrane proteins. Proteins of this family contain three helical transmembrane domains and a conserved intracellular Popeye domain. In the adult mouse, this gene is expressed at high levels in cardiac myocytes, and mice deficient for this gene develop stress-induced cardiac pacemaker dysfunction. The protein binds to a two-pore domain potassium channel and recruits it to the plasma membrane. Cyclic adenosine monophosphate negatively regulates this interaction through the Popeye domain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]

## Product images:



Circular map for MG205720