

Product datasheet for **MC205951**

Popdc2 (BC064005) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Popdc2 (BC064005) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Popdc2
Synonyms:	AV006127; Pop2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC064005
 CTCTCCACTCCGCGTTCTGCCTGGGAACGACAGAGAGCAGAATGTGGCTGCTTCGTCGCCGTGTTGCTGAA
 GTTCATGGTGTGCGAGTTCCTACTTCTCCTCAGGACAATGTATGCTGTTTGCTAAGGACTAAATATGAAGA
 CCAGCCTAAGAAAAGCCGGAGCCAAAGAGGTTTACCAGAGCACTGCGGGAGGGACAAGAGCTTCGCTGAGA
 GAGAGAGAAAGAGAGGAACGAGGAAAAGAAAAATCCCAACAACAACCTTAGGCTTTCAGCTTCCATGA
 AGTGTACTATGCTCCTGCGTTCCTTCTCAGAGCCACCGGAAGCATTCTGCCAGCAAGGTTGCATTGGTA
 GTGAGAAGCCACCTGGGAGGACAACTGACTGATTTTCCCTCAGTTTCCCTTTGTGGAGACCGTTTTGGA
 GCCTGCAAAGGCCTCGAGGGCCCCAAAGATGAGTGCCAATGGCAGCTCGGTGGCTCAGCTCCTCTGGCAG
 CCGCCCCGTGTGCAGGAGCTGAAACCGGATGTAGAAGGAGCTGTCTATCACCTGGCCAACGTGTTTCTTGC
 TTATGGGCTTTATGGCAGGCAGTGGAGTGTATGGATGCTTCTATCTTTTCGGCATCCTGGGCCAGGCTA
 CCTCTGCTGCGTGTGGGGCTGGTTTGTGCTTGTGGACTAGACATCGTCTTTTGAACGCTCCTCCTG
 ACAGTGGCTTGCCTGCTCAGCTGGCACAGCTGGTCTATCGTGTCCGGTGAATACCCTCCCGGAGGAAT
 TCAATCTCCTCTACAGGACACTGTGCCTGCCCTGCAGGTGCCCTGCAGGTCTACAAGGAGATTGTCCA
 CTGCTGCCATGAGCAGGCTTGACGCTGGCCACAGAGCAGACCTACGCTGTGGAGGGGAGACCCCATC
 AATCGCCTGTCCCTGCTCCTCTCAGGCCGGTTTCGAGTGACCAAGACGGGCAGTTTCTGCACTACATCT
 TTCCGTATCAGTTCATGGACTCTCCTGAATGGGAATCACTGCATCCTTCTGAAGAGGGGACCTTCCAGGT
 GACGCTGACTGCGGAGACCGAATGTAGTACATTTCTGGCCCCGAAAAATCTTACCTTCTTCTGAAC
 AGAGAGCGATACATCTCCCGCTTCTCAGCCCTGCTGGGCTATGACATCTCGGAGAAGCTCTATACCC
 TCAATGACAAGCTGTTTGCCAAGTTTGGGTTACGCTTCGACATCCGCCTTCCAGCCTCTACCACGTTCT
 GAGTCCCTCTGCCTCAGACGGGAACAGAGTCTGAGAAAAGATGATGAAGAAGCCCTTGAGGCAGCTGTG
 TCCCTGCTCAGGCCAGGCCATCTGCATCGTGCCAACACCCCTTGTTCGCGCCTCCAGCAACCACCA
 ACTTTCCCGTGCCTCTGCCCGGGCCAGGATGCCAGGATGCCAGGCCGACAGCGGCAACCTGGGTGA
 GGACTCCACCAGTCTGGTCTGGAGGATTTTGGAGGTTTCAGGATCAGAGTCGTTTATGGATTATAGG
 AGCGATGGGGAGTACATGAGGTGAGGGCGGAATAACACGGGCACAGTCACCGGCTCAGGATCCTACCCT
 CTAGAGCTCCTCTCCAGAACTTCTCAAGTTATGTCCAGATCCCAGGCCCTCTGGCTCCAATTACAC
 TCCTGAGCTCTAAGGATCACAGAGCTGTGCTCTGTAGCCAGATGGCACTCCTCCATGTTCCCGGATG
 GCCACTTATACTCTACCCCTCCTTAGCCCTCCAGAAAGATGTGTGGCAAGCTGGGGATGGACATGA
 CGTGAAGAACTCACCTCAGGAGCCTTCTTACAGCAGGAGGTCAGAGGCACCTGGCCTGACTCCAT
 CCTTTATGGGTTGCAGGACATTGCCAGGTTTACACGGCCTCTGAGCCTGGACTGTGAGGCTAGGAACTCA
 CGTCACAGGGTTGTTGTGAGGATCCAGTGAGCTGATTGGGTAGAGCACCTATGACAGGACATGGCGTCT
 GCAAGCATGCAATAAAACGCTTACGCCTCTCCCGTGTGTTGCTTTAAATTGTCTGAAAGAATCCAAT
 GACTTTTACCATGCTTATTTACTCCAAAATTAATTTCAATTGAAATAAAAAATTTTAAATCCCAA AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC064005

Insert Size: 1116 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).

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: 1116 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]