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Product datasheet for MG216917

Popdc2 (NM_022318) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Popdc2
Synonyms:	AV006127; P; Pop2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG216917 representing NM_022318
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGCCAATGGCAGCTCGGTGGCTCAGCTCCTCTGGCAGCCGCCCGTGTGCAGGAGCTGGAAACCGG
ATGTAGAAGGAGCTGTCTATCACCTGGCCAACTGTTTCTTGCTTATGGGCTTTATGGCAGGCAGTGGAGT
GTATGGATGCTTCTATCTTTTCGGCATCCTGGGCCCAGGCTACCTCTGCTGCGTGCTGTGGGGCTGGTTT
GATGCTTGTGGACTAGACATCGTCCTTTGGAACGTCCTCCTGACAGTGGCTTGCCTGCTTCAGCTGGCAC
AGCTGGTCTATCGTGTCCGGGTGAATACCCTCCCGGAGGAATTCAATCTCCTCTACAGGACACTGTGCCT
GCCCCTGCAGGTGCCCCTGCAGGTCTACAAGGAGATTGTCCACTGCTGCCATGAGCAGGTCTTGACGCTG
GCCACAGAGCAGACCTACGCTGTGGAGGGGGAGACCCCCATCAATCGCCTGTCCCTGCTCCTCTCAGGCC
GGGTTCGAGTGAGCCAAGACGGGCAGTTTCTGCACTACATCTTTCCGTATCAGTTCATGGACTCTCCTGA
ATGGGAATCACTGCATCCTTCTGAAGAGGGGACCTTCCAGGTGACGCTGACTGCGGAGACCGAATGTAGC
TACATTTCCTGGCCCCGGAAAAATCTTTACCTTCTTCTGAACAGAGAGCGATACATCTCCCGCCTCTTCT
CAGCCCTGCTGGGCTATGACATCTCGGAGAAGCTCTATACCCTCAATGACAAGCTGTTTGCCAAGTTTGG
GTTACGCTTCGACATCCGCCTTCCCAGCCTCTACCACGTTCTGAGTCCCTCTGCCTCAGACGGGGAACCA
GAGTCTGAGAAAGATGATGAAGAAGCCCTTGAGGCAGCTGTGTCCCCTGCTCAGGCCAGGCCCATCTGCA
TCGTGCCAACACCCCCTTGTTCCGCGCCTCCAGCAACCACCAACTTTCCCGTGCCTCTGCCCCGGGCCAG
GATGCCCAGGATGCCCAGGCCGGACAGCGGCAACCTGGCCTCTAGACGTCCTCTCCAGAACTCTTCTCAA
GTTATGTCCAGATCCCAGGCCCCTCTGGCTCCAATTCACACTCCTGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>MG216917 representing NM_022318
Red=Cloning site Green=Tags(s)

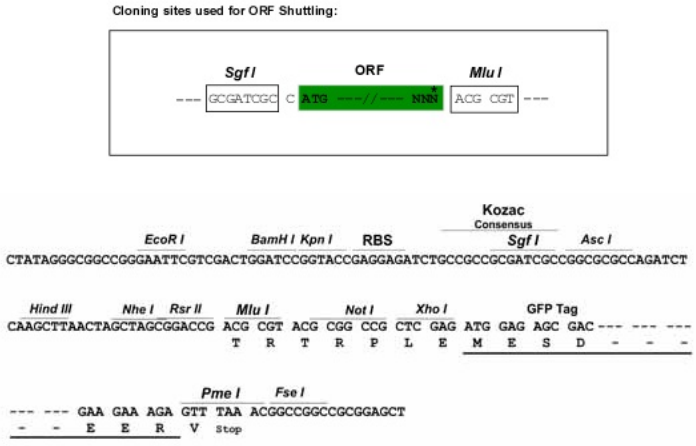
MSANGSSVAQLLWQPPVCRSWKPDVEGAVYHLANCFLLMGFMAGSGVYGCFYLFGILGPGYLCCVLWGWF
DACGLDIVLWNVLLTVACLLQLAQLVYRVRVNTLPEEFNLLYRTLCLPLQVPLQVYKEIVHCCHEQVLTL
ATEQTYAVEGETPINRLSLLLSGRVRVSQDGQFLHYIFPYQFMDSPEWESLHPSEEGTFQVTLTAETECS
YISWPRKNLYLLLNRERYISRLFSALLGYDISEKLYTLNDKLFAKFGLRFDIRLPSLYHVLSPSASDGEP
ESEKDDEEALEAAVSPAQARPICIVPTPPCSAPPATTNFPVPLPRARMPRMPRPDSGNLASRRPLQNSSQ
VMSRSQAPLAPIHTPEL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_022318

ORF Size:

1101 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:

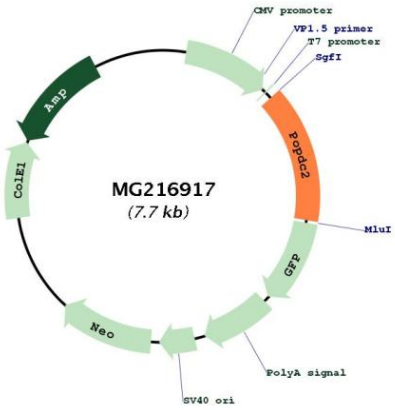
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_022318.3
RefSeq Size:	2027 bp
RefSeq ORF:	1104 bp
Locus ID:	64082
UniProt ID:	Q9ES82
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 MG216917