

Product datasheet for **RC204765**

POPDC3 (NM_022361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POPDC3 (NM_022361) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POPDC3
Synonyms:	bA355M14.1; LGMDR26; POP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204765 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAAAGAAATTCAGTTTATGGAAGAACCTAATAGATGAACACCCAGTCTGCACAACCTGGAAGCAAG
 AGGCCGAAGGAGCCATTTATCATCTTGCCAGTATTTATTTGTAGTAGGTTTCATGGGTGGCAGTGGATT
 CTTGGGCTCCTTTATGTCTTCAGTTTGCTGGGTTGGGTTTCTCTGTTCTGCTGTCTGGGCTTGGGTA
 GATGTCTGTGCAGCTGACATATTTCTGGAATTTGTACTGTTGTCTCATCTGCTTCATGCAATTTGTTT
 ATATTGCATATCAAGTTCGCAGCATAACCTTTGCCGAGAATTCAGTGTGTACAGCTCCCTTTTCCA
 GCCCTGGGGATCTCTTTGCCTGTCTTCAGAACGATTGCTTTGAGCTCTGAAGTGGTTACTTTGGAAAAG
 GAACACTGTTATGCCATGCAGGGGAAAACCTCCATTGATAAACTCTCCTTGCTTGTTCAGGAAGGATCA
 GAGTGACAGTTGATGGCGAATTTCTGCATTACATTTTCCCTTCAGTTCCTGGATTCTCCTGAGTGGGA
 TTTACTGAGACCCACAGAGGAAGGCATTTTTCAGGTAACCCTCACTGCAGAACTGATTGTGATATGTG
 TCTTGGAGGAGAAAGAAATTATCTGCTCTTTGCTCAGCATCGCTACATCTCCCGCCTTTTTCAGTGC
 TAATTGGCAGTGACATTGCAGATAAACTCTATGCCTTGAATGACAGGGTATATATAGGAAAAGATATCA
 CTATGATATTCGGCTACCAACTTCTATCAAATGTCAACTCCAGAAATACGCAGATCACCCCTGACACAA
 CATTTTCAGAATTCAGACGATACTGTGATAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204765 protein sequence
 Red=Cloning site Green=Tags(s)

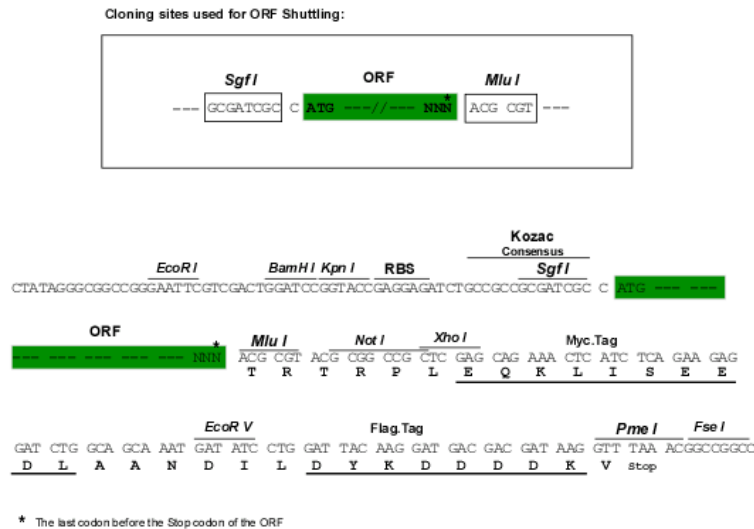
MERNSSLWKNLIDEHPVCTTWKQEAEGAIYHLASILFVVGFMGGSGFFGLLYVFSLLGLGFLCSAVWAWV
 DVCAADIFSWNFVLFVICFMQFVHIAVQVRSITFAREFQVLYSSLFQPLGISLPVFTIALSSEVVTLEK
 EHCYAMQGKTSIDKLSLLVSGRIRVTVDGEFLHYIFPLQFLDPEWDSL RPTTEGIFQVTLTAETDCRYV
 SWRRKKLYLLFAQHRYISRLFVSLIGSDIADKLYALNDRVYIGKRYHYDIRLPNPFYQMSTPEIRRSPLTQ
 HFQNSRRYCDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6549_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022361

ORF Size: 873 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_022361.5](#)

RefSeq Size: 1848 bp

RefSeq ORF: 876 bp

Locus ID: 64208

UniProt ID: [Q9HBV1](#)

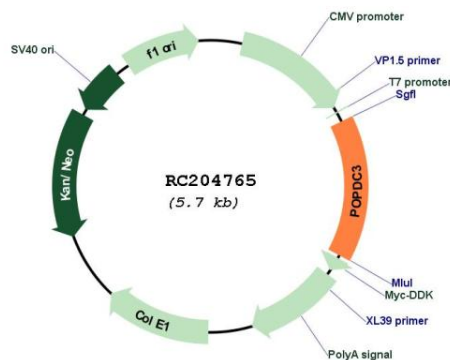
Cytogenetics: 6q21

Protein Families: Transmembrane

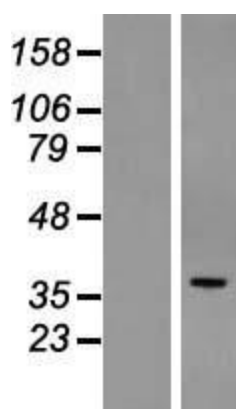
MW: 33.9 kDa

Gene Summary: This gene encodes a member of the POP family of proteins containing three putative transmembrane domains. This gene is expressed in cardiac and skeletal muscle and may play an important role in these tissues during development. Alternatively spliced transcript variants have been found. [provided by RefSeq, Nov 2008]

Product images:



Circular map for RC204765



Western blot validation of overexpression lysate (Cat# [LY411687]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204765 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).