

Product datasheet for **RG204765**

POPDC3 (NM_022361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POPDC3 (NM_022361) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POPDC3
Synonyms:	bA355M14.1; LGMDR26; POP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204765 representing NM_022361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAAGAAATTCAAGTTTATGGAAGAACCTAATAGATGAACACCCAGTCTGCACAACCTGGAAGCAAG
AGGCCGAAGGAGCCATTTATCATCTTGCCAGTATTTATTTGTAGTAGGTTTCATGGGTGGCAGTGGATT
CTTCGGGCTCCTTTATGTCTTCAGTTTGCTGGGGTTGGGTTTCTCTGTTCTGCTGTCTGGGCTTGGGTA
GATGTCTGTGCAGCTGACATATTTCTGGAATTTGTACTGTTGTCTCATCTGCTTCATGCAATTTGTTT
ATATTGCATATCAAGTTCGCAGCATAACCTTTGCCGAGAATTCAGTGTGTACAGCTCCCTTTTCCA
GCCCTGGGGATCTCTTTGCCTGTCTTCAGAACGATTGCTTTGAGCTCTGAAGTGGTTACTTTGGAAGG
GAACACTGTTATGCCATGCAGGGGAAAACCTCCATTGATAAACTCTCCTTGCTTGTTCAGGAAGGATCA
GAGTGACAGTTGATGGCGAATTTCTGCATTACATTTTCCCTTCAGTTCCTGGATTCTCCTGAGTGGGA
TTCAGTGAGACCCACAGAGGAAGGCATTTTCAGGTAACCCTCACTGCAGAACTGATTGTGATATGTG
TCTTGAGGAGAAAGAAATTATCTGCTCTTTGCTCAGCATCGCTACATCTCCCGCTTTTTCAGTGC
TAATTGGCAGTGACATTGCAGATAAACTCTATGCCTTGAATGACAGGGTATATAGGAAAAAGATATCA
CTATGATATTCGGCTACCAACTTCTATCAAATGTCAACTCCAGAAATACGCAGATCACCCCTGACACAA
CATTTTCAGAATTCAGACGATACTGTGATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204765 representing NM_022361
Red=Cloning site Green=Tags(s)

MERNSSLWKNLIDEHPVCTTWKQEAEGAIYHLASILFVVGFMGGSGFFGLLYVFSLLGLGFLCSAVWAW
DVCAADIFSWNFVLVVICFMQFVHIAVQVRSITFAREFQVLYSSLFQPLGISLPVFTIALSSEVVTLEK
EHCYAMQGKTSIDKLSLLVSGRIRVTVDGEFLHYIFPLQFLDPEWDSLRTTEGIFQVTLTAETDCRYV
SWRRKKLYLLFAQHRYISRLFVSLIGSDIADKLYALNDRVYIGKRYHYDIRLPNPFYQMSTPEIRRSPLTQ
HFQNSRRYCDK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGTACGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- --- GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT

- - E E R V Stop

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: 1854 bp

RefSeq ORF: 876 bp

Locus ID: 64208

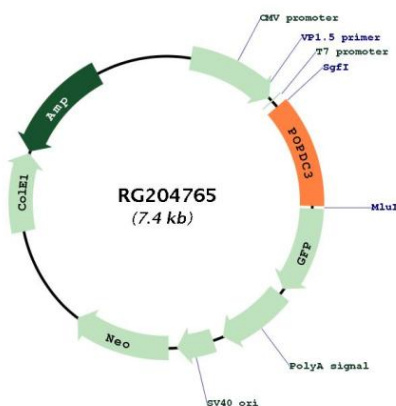
UniProt ID: [Q9HBV1](#)

Cytogenetics: 6q21

Protein Families: Transmembrane

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 RG204765