

Product datasheet for **RG208106**

POPDC2 (NM_022135) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POPDC2 (NM_022135) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POPDC2
Synonyms:	POP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208106 representing NM_022135 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAGCGCCAACAGCAGCAGAGTGGGCCAGCTTCTCTTGAGGGTTGAGCGTGCATTAGGTGGAAGCAGG
ATGTGGAAGGGGTGTCTACCACCTAGCCAAGTGCCTCTTACTCCTGGGCTTCATGGGGGCGAGTGGGT
GTATGGATGCTTCTATCTTTTGGCTTCCTGAGTGCAGGTTACCTGTGCTGCGTGTGGGGCTGGTTC
AGTGCCTGTGGCCTGGACATTGTTCTTTGGAGCTTCTGCTGGCTGTGGTCTGCCTGCTCCAGCTGGCAC
ACCTGGTATACCGCTGCGTGAGGACACCTCCCTGAGGAGTTTGACCTCCTCTACAAGACGCTGTGCCT
GCCCTTGAGGTGCCCTACAGACATACAAGGAGATTGTTCACTGCTGCGAGGAGCAGGTCTTAACCTCTG
GCCACTGAACAGACCTATGCTGTGGAGGGTGAGACACCCATCAACCGCCTGTCCCTGCTGCTCTCTGGCC
GGGTTCGTGTGAGCCAGGATGGGCAGTTTCTGCACTACATCTTTCCATACCAGTTCATGGACTCTCCTGA
GTGGGAATCACTACAGCCTTCTGAGGAGGGGTGTTCCAGGTCACTCTGACTGCTGAGACCTCATGTAGC
TACATTTCTGGCCCGGAAAAGTCTCCATCTTCTTGACCAAGAGCGATACATCTCTGCCTCTTCT
CGGCTCTGCTGGGATATGACATCTCGGAGAAGCTCTACACTCTCAATGACAAGCTCTTTGCTAAGTTTG
GCTGCGCTTTGACATCCGCTTCCAGCCTCTACCATGTCCTGGGTCCCAGTCTGCAGATGCTGGACCA
GAGTCCGAGAAGGTGATGAGGAAGTCTGTGAGCCAGTGTGTCCCTCCTCAGGCCACACCCACCTCTC
TCCAGCAAACACCCCTTGTCTACCCCTCCAGCTACCACCAACTTTCCTGCACCTCCTACCCGGGCCAG
GTTGTCCAGGCCAGACAGTGGCATACTGCTTCTAGAATTCTCTCCAGAGCTACTCTCAAGTTATATCC
AGGGGACAGGCCCTTTGGCTCCAACCCACACGCTGAACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208106 representing NM_022135
 Red=Cloning site Green=Tags(s)

MSANSSRVGQLLLQGSACIRWKQDVEGAVYHLANCLLLLGMGGSGVYGCFFLFGFLSAGYLCCVLWGWF
 SACGLDIVLWSFLLAVVCLLQLAHLVYRLREDTLPEEFDLLYKTLCLPLQVPLQTYKEIVHCCEEQVLT
 ATEQTYAVEGETPINRLSLLSGRVRVSQDQGLHYIFPYQFMDSPWESLQPSEEGVFQVTLTAETSCS
 YISWPRKSLHLLTKERYISCLFSALLGYDISEKLYTLNDKLF AKFGLRFDIRPLSLYHVLGPTAADAGP
 ESEKGDDEEVCEPAVSPQATPTSLQQTTPCSTPPATTNFPAPPTRARLSRPDSGILASRIPLQSYSQVIS
 RGQAPLAPHTPEL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_022135

ORF Size: 1092 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_022135.2](#), [NP_071418.2](#)

RefSeq Size: 1667 bp

RefSeq ORF: 1095 bp

Locus ID: 64091

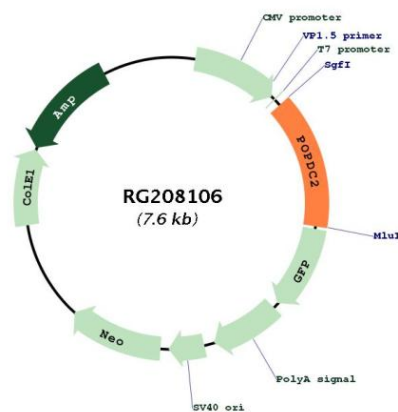
UniProt ID: [Q9HBU9](#)

Cytogenetics: 3q13.33

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the POP family of proteins which contain three putative transmembrane domains. This membrane associated protein is predominantly expressed in skeletal and cardiac muscle, and may have an important function in these tissues. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208106