

Product datasheet for **RG214665**

PYDC2 (NM_001083308) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: PYDC2

Synonyms: cPOP2; POP2

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214665 representing NM_001083308
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**

ATGGCATCTTCTGCAGAGCTGGACTTCAACCTGCAGGCTCTTCTGGAGCAGCTCAGCCAGGATGAGTTGA
GCAAGTTCAAGTCTCTGATCAGAACAATCTCCCTGGGAAAGGAGCTACAGACCGTCCCCAGACAGAGGT
AGACAAGGCTAATGGGAAGCAACTGGTAGAAATCTTACCAGCCACTCTGCAGCTACTGGCAGGGATG
GCAGCCATCCAGTCTTTGAAAAGATGAATCAAACGCATCTGTCTGGGAGAGCTGATGAACACTGTGTGA
TGCCCCACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214665 representing NM_001083308
Red=Cloning site Green=Tags(s)

MASSAELDFNLQALLEQLSQDELKFKSLIRTISLGKELQTPQTEVDKANGKQLVEIFTSHSCSYWAGM
AAIQVFEKMNQTHLSGRADEHCVMPPP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001083308

ORF Size: 291 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.

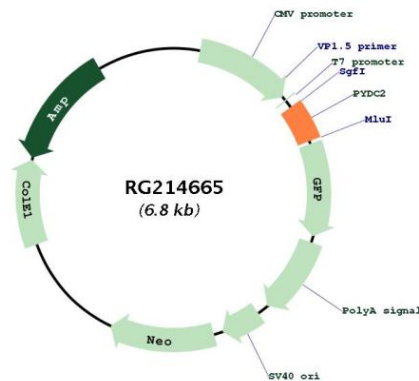
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001083308.1 , NP_001076777.1
RefSeq Size:	294 bp
RefSeq ORF:	294 bp
Locus ID:	152138
UniProt ID:	Q56P42
Cytogenetics:	3q28
Gene Summary:	May play a role in innate immunity by disrupting the interaction between PYCARD and NLRP3, thereby regulating the NLRP3 inflammasome (PubMed:17339483, PubMed:17178784). May also inhibit NF-kappa-B signaling distally by affecting the nuclear accumulation of RELA (PubMed:17339483, PubMed:24871464).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214665