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# Product datasheet for RC214665

## PYDC2 (NM_001083308) Human Tagged ORF Clone

## Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | PYDC2 (NM_001083308) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | PYDC2 |
| **Synonyms:** | cPOP2; POP2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

```
>RC214665 representing NM_001083308
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCATCTTCTGCAGAGCTGGACTTCAACCTGCAGGCTCTTCTGGAGCAGCTCAGCCAGGATGAGTTGA
GCAAGTTCAAGTCTCTGATCAGAACAATCTCCCTGGGAAAGGAGCTACAGACCGTCCCCCAGACAGAGGT
AGACAAGGCTAATGGGAAGCAACTGGTAGAAATCTTCACCAGCCACTCCTGCAGCTACTGGGCAGGGATG
GCAGCCATCCAGGTCTTTGAAAAGATGAATCAAACGCATCTGTCTGGGAGAGCTGATGAACACTGTGTGA
TGCCCCCACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

**Protein Sequence:**

```
>RC214665 representing NM_001083308
Red=Cloning site Green=Tags(s)

MASSAELDFNLQALLEQLSQDELSKFKSLIRTISLGKELQTVPQTEVDKANGKQLVEIFTSHSCSYWAGM
AAIQVFEKMNQTHLSGRADEHCVMPPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

| | |
|---|---|
| **Chromatograms:** | https://cdn.origene.com/chromatograms/mk8030_e02.zip |
| **Restriction Sites:** | SgfI-MluI |

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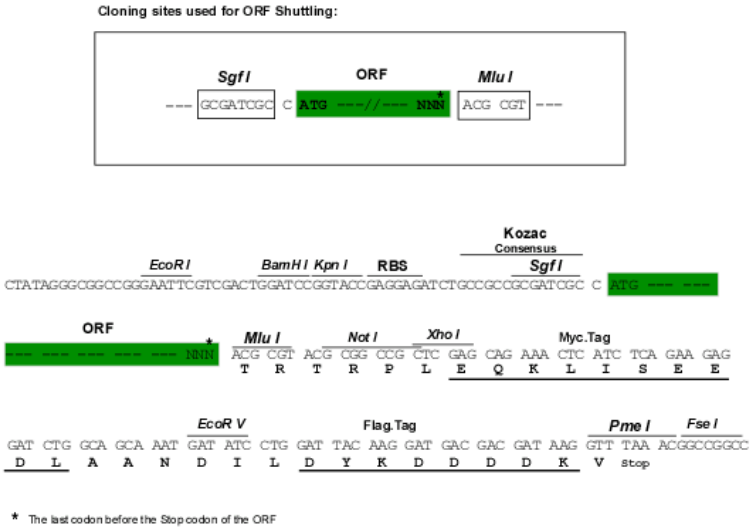
**Cloning Scheme:**




| | |
|---|---|
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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 |

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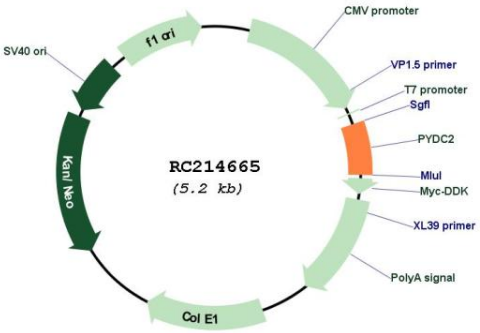
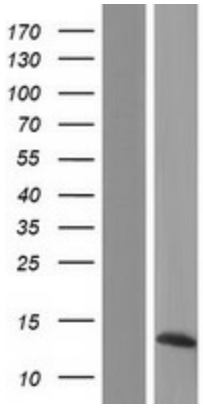
| | |
|---|---|
| **Locus ID:** | 152138 |
| **UniProt ID:** | Q56P42 |
| **Cytogenetics:** | 3q28 |
| **MW:** | 10.6 kDa |
| **Gene Summary:** | May play a role in innate immunity by disrupting the interaction between PYCARD and NLRP3, thereby regulating the NLRP3 inflammasome (PubMed:17339483, PubMed:17178784). 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 RC214665




Western blot validation of overexpression lysate (Cat# [LY421211]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214665 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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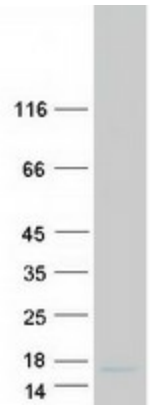


Coomassie blue staining of purified PYDC2 protein (Cat# [TP314665]). The protein was produced from HEK293T cells transfected with PYDC2 cDNA clone (Cat# RC214665) using MegaTran 2.0 (Cat# [TT210002]).

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