

Product datasheet for **RC212505**

PID1 (NM_001100818) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PID1 (NM_001100818) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PID1
Synonyms: HMFN2073; NYGGF4; P-CLI1; PCLI1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC212505 representing NM_001100818
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCAGCCGGCCACGGAGCGCCTGCAGCACTTTCAGACCATGCTGAAGTCTAAATTGAATGTCTTAA
CACTGAAAAGGAACCTCTCCAGCGGTCATCTCCATGAGCCGGAGGCCATTGAGCTGTGCACGACCAC
ACCGCTGATGAAGACAAGGACTCACAGTGGCTGCAAGGTTACCTACCTGGCAAAGTCTCCACCACTGGC
ATGCAGTTTTTGTGAGGCTGCACAGAAAAGCCAGTCATTGAGCTCTGGAAGAAGCACACGCTAGCCCGAG
AGGATGTCTTTCCGGCCAATGCCCTCCTGGAAATCCGGCCATTCCAAGTTTGGCTCCATCATCTCGACCA
CAAAGGGGAGGCCACAGTGCACATGGATACCTTCCAGGTGGCCCGCATCGCCTACTGCACCGCCGACCAC
AACGTGAGCCCCAACATCTTCGCCTGGGTCTACAGGGAGATCAATGATGACCTGTCTACCAGATGGACT
GCCACGCCGTGGAGTGCAGAGCAAGCTCGAGGCCAAGAACTGGCCACGCCATGATGGAGGCCTTCAG
GAAGACTTTCCACAGTATGAAGAGCGACGGCGGATCCACAGCAACAGCTCCTCCGAAGAGGTTTCCAG
GAATTGGAATCCGATGATGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212505 representing NM_001100818
 Red=Cloning site Green=Tags(s)

MWQPATERLQHFQTMLKSKLNLVTLKKEPLPAVIFHEPEAIELCTTTPLMKTRTHSGCKVLYLGKVSTTG
 MQFLSGCTEKPVIELWKKHTLAREDFVPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADH
 NVSPNIFAWVYREINDDLSYQMDCHAVECESKLEAKKLAHAMMEAFRKTFFHSMKSDGRIHNSNSSSEEVSQ
 ELESDDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1433_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001100818

ORF Size: 651 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.

RefSeq: [NM_001100818.2](#)

RefSeq Size: 2626 bp

RefSeq ORF: 654 bp

Locus ID: 55022

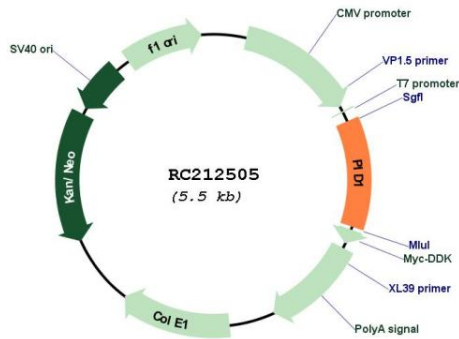
UniProt ID: [Q7Z2X4](#)

Cytogenetics: 2q36.3

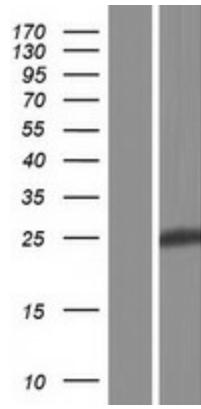
MW: 24.6 kDa

Gene Summary: Increases proliferation of preadipocytes without affecting adipocytic differentiation. [UniProtKB/Swiss-Prot Function]

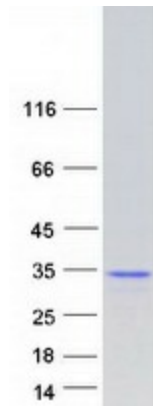
Product images:



Circular map for RC212505



Western blot validation of overexpression lysate (Cat# [LY420294]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212505 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PID1 protein (Cat# [TP312505]). The protein was produced from HEK293T cells transfected with PID1 cDNA clone (Cat# RC212505) using MegaTran 2.0 (Cat# [TT210002]).