

Product datasheet for **RC227374**

PCID2 (NM_001127202) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	PCID2
Synonyms:	F10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC227374 representing NM_001127202
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCACATTACCATTAAACCACTACCTGCAGCAGGTGTACGAAGCCATCGACAGCAGAGATGGAGCAT
CTTGTGCAGAGTTGGTGTCTTTTAAACATCCTCATGTTGCAAACCCACGACTTCAAATGGCCTCTCCAGA
GGAGAAGTGTCAACAAGTCTTGAACCCCTTATGATGAAATGTTTGCAGCTCATTTAAGGTGCACTTAT
GCAGTGGGAATCATGACTTCATAGAGGCATACAAGTGCCAGACCGTGATAGTCCAATCATTCTTGCGAG
CATTCCAGGCCCAAAAGAAAGAAACTGGGCTCTGCCTGTCATGTATGCAGTAGCGCTTGACCTTCGAGT
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GCAGCAGAGTTACTGATGAGCTGTTCCGGGTCTGTGCCAGCGACACCCGTGCTGGTATAGAGGACTCTA
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AGTAAAAATGCTATTGGGTCACATGCCCACTGTGGAGCTCCTGAAAAAGTATCACCTGATGCAGTTTGGC
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TCTTCATTCGCTGCGGAATCTTCTCATCTGGAGAAGCTGAAGATCATCACCTACAGGAACCTCTTTAA
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CAGGTGGAGGACGTGGACATTGACGAAGTTCAGTGTATTCTGGCTAACTTGATATACATGGGACAGTCA
AAGGCTACATATCGCATCAGCATCAGAAGCTGGTGGTCAGCAAGCAGAACCCATTTCTCCCTGTCCAC
GGTGTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Red=Cloning site Green=Tags(s)

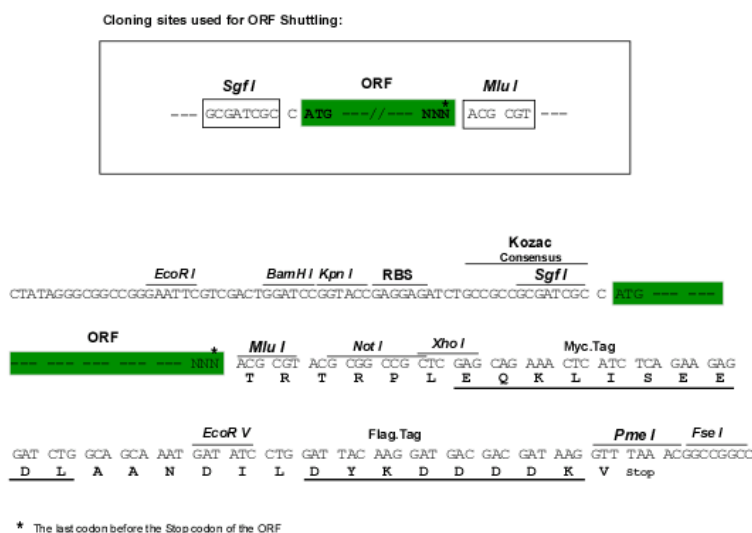
MAHITINQYLQQVYEAIDSRDGASCAELVSFKHPHVANPRLQMASPEEKCCQVLEPPYDEMFAAHLRCTY
AVGNHDFIEAYKQCTVI VQSFLRAFQAHKEENWALPVMYAVALLDLRVFANNADQQLVKKGKSKVGDMLEK
AELLMSCFRVCASDTRAGIEDSKKWGMLFLVNQLFKIYFKINKLHLCKPLIRAIDSSNLKDDYSTAQRV
TYKYVYVGRKAMFDSDFKQAEYYLSFAFEHCHRSSQKNKRMILIYLLPVKMMLGHMPTVELLKKYHLMQFA
EIVTRAVERSEGNLLHLEALAKHEAFFIRCGFILLEKLIKITYRNLFKKVYLLLLKTHQLSLDAFLVALKFM
QVEDVDIDEVOCTI ANI TYMGHVKGYTSOHOKI VSKONPEPPI STVC

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8057_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001127202

ORF Size: 1197 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_001127202.4](#)

RefSeq ORF: 1200 bp

Locus ID: 55795

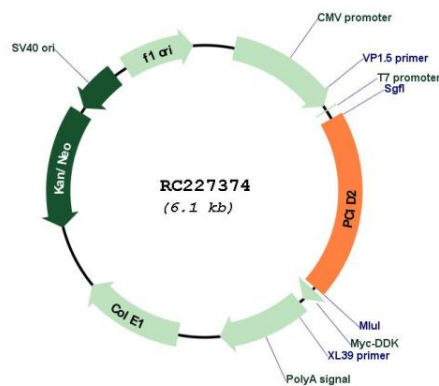
UniProt ID: [Q5JVF3](#)

Cytogenetics: 13q34

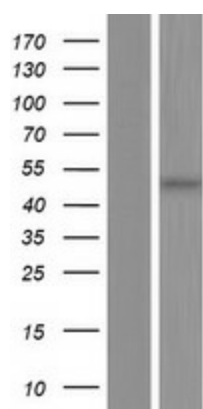
MW: 45.8 kDa

Gene Summary: This gene encodes a component of the TREX-2 complex (transcription and export complex 2), which regulates mRNA export from the nucleus. This protein regulates expression of Mad2 mitotic arrest deficient-like 1, a cell division checkpoint protein. This protein also interacts with and stabilizes Brca2 (breast cancer 2) protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RC227374



Western blot validation of overexpression lysate (Cat# [LY426705]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227374 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).