

Product datasheet for **MG217027**

Pcid2 (NM_178708) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|-------------------------|
| Product Type: | Expression Plasmids |
| Tag: | TurboGFP |
| Symbol: | Pcid2 |
| Synonyms: | A730042J05Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |

ORF Nucleotide Sequence: >MG217027 representing NM_178708
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCGACATCACCATTAACCACTACCTACAGCAGGTATATGAAGCCATCGACACCAGAGATGGAGCAT
CCTGTGCAGAGCTGGTATCCTTTAAGCACCTCATGTTGCGAACCCACGGCTCCAGATGGCCTCTCCAGA
AGAGAAATGCCAGCAAGTTCTGGAGCCCCATATGATGAAATGTTTGCAGCTCATTTAAGGTGTACCTAT
GCTGTGGGGAATCACGACTTCATAGAAGCGTACAAGTGCCAGACGGTGTAGTCCAATCATTCTCCGGG
CATTCCAGGCTCACAAAGAGGAAAACCTGGGCTCTGCCTGTCATGTATGCAGTAGCACTTGACCTTCGGAT
ATTTGCCAATAATGCAGACCAGCAGTTGGTAAAGAAAAGGGAAGAGCAAAGTTGGAGACATGCTGGAAAA
GCTGCCGAGCTGCTGATGAGCTGCTCCGAGTCTGTGCCAGTGACACCCGTGCCGGCATAGAAGACTCTA
AGAAGTGGGGGATGCTGTTCTGGTGAACCAGCTATTTAAATCTACTTTAAGATCAACAACTCCATTT
GTGTAACCTCTTATCAGAGCCATCGACAGCTCGAATCTGAAAGATGACTATAGCACAGCGCAGAGGATC
ACGTACAAGTACTACGTGGGGCGCAAGGCCATGTTTGACAGTGACTTCAAGCAAGCGGAGGAGTACCTGT
CGTTTGCTTTGAACACTGCCATCGCTCCAGCCAGAAGAACAAGAGGATGATTCTGATCTACCTGCTGCC
AGTGAAGATGCTGCTGGTCCATGCCGACCATCGAGCTCCTGAGGAAAACCACTGATGCAGTTTTCA
GAAGTGACCAAAGCCGTCAAGTGAAGGCAACCTGCTGCTGCTCAATGAGGCGCTGGCAAAGCACGAGACGT
TCTTCATCCGCTGTGGCATCTTCTCATCTGGAGAAGCTGAAGATCATCACGTACAGGAACCTCTTCAA
GAAAGTGTATTTTACTCAAGACACATCAGCTGTCCCTAGACGCCTTTCTGGTGCCTTTGAAGTTCATG
CACGTGGAAGACGTGGACATTGACGAGTCCAGTGCATTCTGGCCAACTGATATACATGGGTACATTA
AAGGCTACATCTCCATCAGCATCAGAACTGGTCGTCAGCAAGCAGAACCCTTCCCTCCGCTGTCAC
AGTGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG217027 representing NM_178708
 Red=Cloning site Green=Tags(s)

MAHITINQYLQQVVEAIDTRDGASCAELVSFKHPHVPRLQMASPEEKCCQVLEPPYDEMFAAHLRCTY
 AVGNHDFIEAYKCQTVIVQSFLRAFQAHKEENWALPVMYAVALDLRIFANNADQQLVKKGKSKVGMLEK
 AAELLMSCFRVCASDTRAGIEDSKKWGMLFLVNQLFKIYFKINKLHLCKPLIRAIDSSNLKDDYSTAQR
 TYKYYVGRKAMFSDFKQAEYLSFAFEHCHRSSQKNKRMILYLLPVKMLLGHMPTIELLRKYHLMQFS
 EVTKAVSEGNLLLLNEALAKHETFFIRCGIFLILEKLIKIITYRNLFKKVYLLKTHQLSLDAFLVALKFM
 HVEDVDIDEVQCILANLIYMGHIKGYISHQHQLVVSQKQNPFPPLSTVC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178708

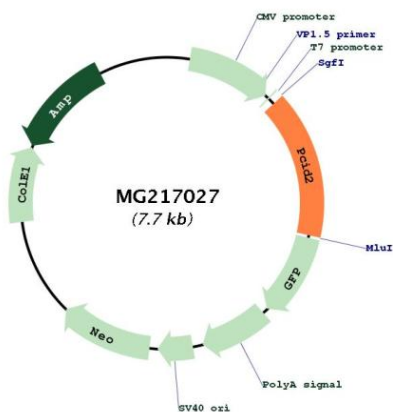
ORF Size: 1197 bp

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: | <ol style="list-style-type: none">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_178708.3 , NP_848823.2 |
| RefSeq Size: | 2408 bp |
| RefSeq ORF: | 1200 bp |
| Locus ID: | 234069 |
| UniProt ID: | Q8BFV2 |
| Cytogenetics: | 8 A1.1 |
| Gene Summary: | Required for B-cell survival through the regulation of the expression of cell-cycle checkpoint MAD2L1 protein during B cell differentiation (PubMed:20870947). As a component of the TREX-2 complex, involved in the export of mRNAs to the cytoplasm through the nuclear pores (By similarity). Binds and stabilizes BRCA2 and is thus involved in the control of R-loop-associated DNA damage and transcription-associated genomic instability. R-loop accumulation does not increase in PCID2-depleted cells (By similarity).[UniProtKB/Swiss-Prot Function] |

Product images:

Circular map for MG217027