

Product datasheet for **MC219642**

Pard3 (NM_001013580) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard3 (NM_001013580) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pard3
Synonyms:	AA960621; AI256638; Asip; D8Ertd580e; Par-3; Par3; Pard-3; Pard3a; Phip
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC219642 representing NM_001013580
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTCTTCATGTCCGCCGAGCAGCAGCCAGCTTTAACTGGCCTTTCCACTTCTGTCTAGTGATAACA
 ACTTTTCTCAGAGGAGCCCTCCAGGAAAAACCCACCCGCTGGTCCACGACAGCTGGCTTTCTCAAGCA
 GAACACCCTGGAAGTCCAAAACTGCGACAGGAAAGAAAGATGAAAACACTACAGAAGCCTTCCACGGGAT
 CCCAGTAGCTGGTCCAACAGTTCAGCGAGACAACGCCCGCTCCTCCCTGAGCGCCAGCCACCCAAATGG
 TAGACCGTGGCTGGAGAAGCAAGAACAGGATGAGGAAGGCACAGAAGAAGACAGCAGCCGAGTGGAGCC
 GGTTGGACATGCTGATACCGGATTGGAGAACATGCCCACTTTTCCCTCGATGATATGGTAAAGCTCGTA
 CAAGTCCCAACGATGGAGGGCCCTGGGAATCCATGTAGTGCCTTTTCAGTGTCTGAGGCGGCAGAACAT
 TGGGGTTGTTAGTGAAGCGGTTGGAGAAAGCGGTAAGGCTGAGCAAGAAAACCTTTTCCATGAGAATGA
 CTGCATTGTGAGGATTAACGATGGAGATCTTCGAAACAGAAGATTTGAGCAAGCACAACATATGTTCCGC
 CAAGCTATGCGTGCCTGTCATTTGGTCCATGTGGTCCCTGCAGCAAACAAGGAGCAATATGAACAAC
 TGTCCCAACGCGAGAAGAACAACACTACTCCCAAGGCCGCTTCAGCCCTGACAGCCACTGTGTGGCCAAACAG
 GAGTGTGGCCAACAATGCCCTCAAGCATTGCCAGAGACCCAGACTGAGTCAGCCACCCGAGCAGCTG
 GATGCTCACCCCGACTACCTCATAGTGCTCACGCCTCAACCAAACCCCGCAGCCCGGCCTTGGCTC
 CACCCAGTGTGCTTAGTACCAACGTAGGAGTGTGTACAACACGAAGAAAGTAGGCAAGAGGCTCAACAT
 CCAGCTTAAGAAAGGTACAGAAGGACTGGGATTCAGCATCACCTCCCGGACGTACCATAGGTGGCTCA
 GCTCCCATTTATGTCAAGAATATCCTTCTCGAGGGGCTGCCATTCAGGATGGCAGACTCAAGGCAGGAG
 ACCGGCTAATAGAGGTCAATGGAGTAGATTTAGCAGGCAATCCAGGAGGAAGTTGTTTCCCTGTTGAG
 AAGCACCAAGATGGAGGGGACTGTGAGCCTTCTGGTCTTTCGTCAGGAAGAGGCTTCCACCCAAGGGAA
 ATGAATGCTGAACCAAGCCAGATGCAGACTCCAAAAGAAACGAAAGCTGAAGATGAGGACGTTGTTCTCA
 CACCCGATGGTACCAGGGAGTTTCTGACTTTTGAAGTTCCACTGAATGACTCAGGATCTGCAGGGCTTGG
 TGTGAGTGTCAAGGGGAACCGTTCCAAAGAGAACCACGCAGATTTGGGGATCTTCGTTAAATCCATTATC
 AATGGTGGAGCTGCATCTAAGATGGAAGGCTGAGGGTAAATGACCAGCTGATAGCTGTGAATGGAGAAT
 CTCTACTGGGCAAAGCCAACCAGGAAGCCATGGAGACTCTACGGAGTCCATGTCCACCGAGGGCAACAA
 GCGTGGCATGATCCAGCTCATTGTGGCAGGCGGATCAGCAGATGTAACGAGCTGCGGTCTCCTGGGAGC
 CCTGCTGCACCTGAGCTGCCATCGAGACAGAAGTGGATGACCGAGAACGCAGGATCTCACACTCCCTCT
 ACAGTGGGATCGAGGGGCTGGATGAGTCGCCACCAGGAACGCAGCACTGAGCAGGATAATGGGAACATA
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013580

Insert Size: 1821 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001013580.3](#), [NP_001013598.1](#)

RefSeq Size: 3629 bp

RefSeq ORF: 1821 bp

Locus ID: 93742

UniProt ID: [Q99NH2](#)

Cytogenetics: 8 74.66 cM

Gene Summary: Adapter protein involved in asymmetrical cell division and cell polarization processes (By similarity). Seems to play a central role in the formation of epithelial tight junctions (By similarity). Targets the phosphatase PTEN to cell junctions (By similarity). Association with PARD6B may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly (PubMed:11839275). The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (By similarity). Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (By similarity). Involved in Schwann cell peripheral myelination (PubMed:21949390). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2, also called PAR-3o2) differs in the 5' and 3' UTR and has multiple coding region differences compared to variant 5. These differences cause translation initiation at a downstream AUG and an isoform (2) with a shorter N-terminus and shorter and distinct C-terminus compared to isoform 5. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.