

Product datasheet for **MC222474**

Pard3 (NM_001013581) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard3 (NM_001013581) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pard3
Synonyms:	AA960621; AI256638; Asip; D8Ertd580e; Par-3; Par3; Pard-3; Pard3a; Phip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222474 representing NM_001013581
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTCTTCATGTCCGCCGGAGCAGCGACCCAGCTTTAACTGGCCTTTCCACTTCTGTCTAGTGATAACA
 ACTTTTCTCAGAGGAGCCCTCCAGGAAAAACCCACCCGCTGGTCCACGACAGCTGGCTTTCTCAAGCA
 GAACACCGCTGGAAGTCCCAAAACCTGCACAGGAAGAAAGATGAAAACACTACAGAAGCCTTCCACGGGAT
 CCCAGTAGCTGGTCCAACCAAGTTCAGCGAGACAACGCCCGCTCCTCCCTGAGCGCCAGCCACCCAAATGG
 TAGACCGGTGGCTGGAGAAGCAAGAACAGGATGAGGAAGGCACAGAAGAAGACAGCAGCCGAGTGGAGCC
 GGTTGGACATGCTGATACCGGATTGGAGAACATGCCCAACTTTTCCCTCGATGATATGGTAAAGCTCGTA
 CAAGTCCCAACGATGGAGGGCCCTGGGAATCCATGTAGTGCCTTTTCAGTGTCTGAGGCGGCAGAACAT
 TGGGGTTGTTAGTGAAGCGGTTGGAGAAAGCGGTAAGGCTGAGCAAGAAAACCTTTTCCATGAGAATGA
 CTGCATTGTGAGGATTAACGATGGAGATCTTCGAAACAGAAGATTTGAGCAAGCACAACATATGTTCCGC
 CAAGCTATGCGTGCAGCTGATTTGGTCCATGTGGTCCCTGCAGCAAACAAGGAGCAATATGAACAAC
 TGTCCTCAACGCGAGAAGAACAACACTACTCCCAAGGCCGCTTCAGCCCTGACAGCCACTGTGTGGCCAAACAG
 GAGTGTGGCCAACAATGCCCTCAAGCATTGCCAGAGACCCAGACTGAGTCAAGCCACCCGAGCAGCTG
 GATGCTCACCCCGACTACCTCATAGTGCTCACGCCTCAACCAAACCCCGCAGCCCGGCCCTGGCTC
 CACCCAGTGTGCTTAGTACCAACGTAGGCAGTGTGTACAACACGAAGAAAGTAGGCAAGAGGCTCAACAT
 CCAGCTTAAGAAAGGTACAGAAGGACTGGGATTCAGCATCACCTCCCGGACGTCACCATAGGTGGCTCA
 GCTCCCATTTATGTCAAGAATATCCTTCTCGAGGGGCTGCCATTCAGGATGGCAGACTCAAGGCAGGAG
 ACCGGCTAATAGAGGTCAATGGAGTAGATTTAGCAGGCAAAATCCAGGAGGAAGTTGTTCCCTGTTGAG
 AAGCACCAAGATGGAGGGGACTGTGAGCCTTCTGGTCTTTCGTCAGGAAGAGGCTTCCACCCAAGGGAA
 ATGAATGCTGAACCAAGCCAGATGCAGACTCCTCAAAAGAAACGAAAGCTGAAGATGAGGACGTTGTTCTCA
 CACCCGATGGTACCAGGGAGTTTCTGACTTTTGAAGTTCCACTGAATGACTCAGGATCTGCAGGGCTTGG
 TGTCAAGTGTCAAGGGGAACCGTTCCAAAGAGAACCACGCAGATTTGGGGATCTTCGTTAAATCCATTATC
 AATGGTGGAGCTGCATCTAAGATGGAAGGCTGAGGGTAAATGACCAGCTGATAGCTGTGAATGGAGAAT
 CTCTACTGGGCAAAGCCAACCAGGAAGCCATGGAGACTCTACGGAGGTCCATGTCCACCGAGGGCAACAA
 GCGTGGCATGATCCAGCTCATTGTGGCAGGCGGATCAGCAGATGTAACGAGCTGCGGTCTCCTGGGAGC
 CCTGCTGCACCTGAGCTGCCATCGAGACAGAAGTGGATGACCGAGAACGCAGGATCTCACACTCCCTCT
 ACAGTGGGATCGAGGGGCTGGATGAGTCGCCACCCAGGAACGCAGCACTGAGCAGGATAATGGGTAATG
 CCAGCTGTCCCCACGGTGAACATGCCTCACGATGACACTGTCTGATTGAAGATGACAGGCTGCCTGTG
 CTCCCTCCTCACCTCTCTGACCAGTCTCCTCCAGCTCCCATGATGACGTTGGATTGATAATGACAGAAG
 CAGGCAGTGGGCCAAAGCTACCATCAGTGACTCAGCCGACTGCTCATTGAGTCCAGATGTTGATCCGGT
 TCTCGTTTTCAACGGGAAGGATTTGGACGCCAGAGTATGTCAGAAAAACGCACAAGCAATTTTCAGAT
 GCCAGTCAATTGGATTTTCGTTAAAACACGAAAATCAAAAAGCATGGATTTAGGTATAGCTGACGAGACTA
 AACTCAATACAGTGGATGACCAGAGAGCAGGCTCTCCAGTAGAGATGTGGGACCCTCCTTAGGTCTGAA
 GAAATCTAGCTCCTTAGAAAGTCTGCAGACCCGCTGTCGCGAGGTGACGCTGAACGGGAACATTCCTTTC
 CACCGCCCTCGGCCACGAATCATCCGGGGAAGGGGCTGCAACGAAAGCTTCAGAGCCGCCATTGACAAGT
 CCTACGACAAGCCATGGTTGATGATGACGACGAAGGCATGGAGACCTTGAAGAAGACACAGAGGAAAG
 CTCGAGGTGAGGGAGGGAGTCCGTGTCCAGTCCAGCGATCAGCCTTCTATTCTCTGGAGAGGCAATG
 AATGGAGACCCAGAGAAAAGGGACAAGACAGAGAGGAAAAAGGACAAAGCCGAAAGGATAAGAAGAAAG
 ACCGAGAGAAGGAGAAGGATAAACTGAAAGCCAAGAAGGGGATGCTGAAAGGCTTGGGGGACATGTTTCAG
 CCTGGCCAAACTGAAGCCGGAGAAGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001013581

Insert Size:	2691 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:	<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.
RefSeq:	<u>NM_001013581.2</u> , <u>NP_001013599.1</u>
RefSeq Size:	3233 bp
RefSeq ORF:	2691 bp
Locus ID:	93742
UniProt ID:	<u>Q99NH2</u>
Cytogenetics:	8 74.66 cM
Gene Summary:	<p>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).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1, also called PAR-3o1) 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 (1) 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.</p>