

Product datasheet for MC224270

Pard3 (NM_033620) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard3 (NM_033620) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pard3
Synonyms:	AA960621; AI256638; Asip; D8Ert580e; Par-3; Par3; Pard-3; Pard3a; Phip
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224270 representing NM_033620 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAAGTGACCGTGTGCTTCGGGAGGACCCGGTGGTCGTGCCGTGCGGAGATGGCCGCATGAAAGTTT
TCAGCCTCATCCAGCAGGCGGTGACCCGCTACCGAAGGCCGTGGCCAAGGATCCAAACTACTGGATACA
GGTGCATCGCTTGAGCATGGAGATGGAGGATCTAGACCTGGATGACATCCTCTGTGAGCTTGTGTGAT
GACAAAGACAGACTGGTAGCAGTATTTGATGAACAGGATCCCCACCATGGAGGAGATGGTACCAGGCCA
GCTCCACGGGAACCCAGAGTCCAGAGATATTCGGCAGTGAGCTGGGCACCAACAATGTTTCTGCTTTTCA
GCCTTATCAAGCCACAAGTGAATTTGAGGTCACGCCTTCAGTTCTTCGGGCAATATGCCTTTCATGTC
CGCCGGAGCAGCGACCCAGCTTTAACTGGCCTTCCACTTCTGTGAGTGATAACAACCTTTTCTCAGAGG
AGCCCTCCAGGAAAAACCCACCCGCTGGTCCACGACAGCTGGCTTTCTCAAGCAGAACCACCGTGGAG
TCCAAAACCTGCGACAGGAAGAAAGATGAAAACACAGAAGCCTCCACGGGATCCAGTAGCTGGTCC
AACCAGTTCAGCGAGACAACGCCGCTCCTCCCTGAGCGCCAGCCACCAATGGTAGACCGGTGGCTGG
AGAAGCAAGAACAGGATGAGGAAGCACAGAAGAAGACAGCAGCCGAGTGGAGCCGGTTGGACATGCTGA
TACCGGATTGGAGAACATGCCAACTTTCCCTCGATGATATGGTAAAGCTCGTACAAGTCCCAACGAT
GGAGGGCCCTGGGAATCCATGTAGTGCCTTTCAGTGCTCGAGGCGGCAGAACATTGGGGTTGTTAGTGA
AGCGGTTGGAGAAAGCGGTAAGGCTGAGCAAGAAAACCTTTTCCATGAGAATGACTGCATTGTGAGGAT
TAACGATGGAGATCTTCGAAACAGAAGATTTGAGCAAGCACAACATATGTTCCGCAAGCTATGCGTGCG
CGTGTCAATTTGGTTCATGTGGTCCCTGCAGCAAAACAAGGAGCAATATGAACAACGTCCCAACGCGAGA
AGAACAACACTCCCCAGGCCGCTTCAGCCCTGACAGCCACTGTGTGGCCAAACAGGAGTGTGGCCAAACA
TGCCCTCAAGCATTGCCAGAGCACCCAGACTGAGTCAGCCACCCGAGCAGCTGGATGCTACCCCCGA
CTACCTCATAGTCTCAGCCTCAACCAAAACACCCGACCCCGCCTTGGCTCCACCCAGTGTGCTTA
GTACCAACGTAGCAGTGTGTACAACACGAAGAAAGTAGGCAAGAGGCTCAACATCCAGCTTAAGAAAGG
TACAGAAGGACTGGGATTCAGCATCACCTCCCGGACGTCACCATAGGTGGCTCAGCTCCCATTTATGTC
AAGAATATCCTTCTCGAGGGGCTGCCATTCAGGATGGCAGACTCAAGGCAGGAGACCGGCTAATAGAGG



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TC AATGGAGTAGATTTAGCAGGCAAATCCCAGGAGGAAGTTGTTCCCTGTTGAGAAGCACCAAGATGGA
 GGGGACTGTGAGCCTTCTGGTCTTTTCGTCAGGAAGAGGCTTTCCACCCAAGGGAATGAATGCTGAACCA
 AGCCAGATGCAGACTCCAAAAGAAACGAAAGCTGAAGATGAGGACGTTGTTCTCACACCCGATGGTACCA
 GGGAGTTTCTGACTTTTGAAGTTCCTGAACTGACTCAGGATCTGCAGGGCTTGGTGTCAAGTGTCAAGGG
 GAACCGTTCCAAAGAGAACCACGCAGATTTGGGGATCTTCGTTAAATCCATTATCAATGGTGGAGCTGCA
 TCTAAAGATGGAAGGCTGAGGGTAAATGACCAGCTGATAGCTGTAATGGAGAATCTCTACTGGGCAAAG
 CCAACCAGGAAGCCATGGAGACTACGGAGGTCATGTCCACCGAGGGCAACAAGCGTGGCATGATCCA
 GCTCATTGTGGCGAGCCGATCAGCAGATGTAACGAGCTGCGGTCTCCTGGGAGCCCTGCTGCACCTGAG
 CTGCCATCGAGACAGAACTGGATGACCGAGAACGCAGGATCTCACACTCCCTCTACAGTGGGATCGAGG
 GGCTGGATGAGTCGCCCACCAGGAACGCAGCACTGAGCAGGATAATGGGTAAATGCCAGCTGTCCCCAC
 GGTGAACATGCCTCAGATGACTGTGATGATTGAAGATGACAGGCTGCCTGTGCTCCCTCCTCACCTC
 TCTGACCAGTCTCCTCCAGCTCCCATGATGACGTTGGATTATAATGACAGAAGCAGGCACGTGGGCCA
 AAGCTACCATCAGTACTCAGCCGACTGCTCATTGAGTCCAGATGTTGATCCGGTCTCGCTTTTCAACG
 GGAAGGATTTGGACGCCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAATTGGAT
 TTCGTTAAAACACGAAAATCAAAAAGCATGGATTTAGTAGCTGACGAGACTAACTCAATACAGTGGATG
 ACCAGAGAGCAGGCTCTCCAGTAGAGATGTGGGACCCTCCTTAGGTCTGAAGAAATCTAGCTCCTTAGA
 AAGTCTGCAGACCCTGTGCGCCGAGGTGACGCTGAACGGGAACATTCTTTCCACCGCCCTCGGCCACGA
 ATCATCCGGGGAAGGGGCTGCAACGAAAGCTTCAGAGCCGCCATTGACAAGTCTACGACAAGCCCATGG
 TTGATGATGACGACGAAGGCATGGAGACCTTGGAAAGACACAGAGGAAAGCTCGAGGTGAGGGAGGGA
 GTCCGTGTCCACGTCCAGCGATCAGCCTTCTATTCTCTGGAGAGGCAATGAATGGAGACCCAGAGAAA
 AGGGACAAGACAGAGAGGAAAAAGGACAAAAGCCGAAAGGATAAGAAGAAAGACCAGAGAAAGGAGAAGG
 AATAACTGAAAGCAAGAAGGGGATGCTGAAAGGCTTGGGGACATGTTCAAGTGTGGCAAAATCGAAA
 AGATGACAAGATGGAAAAATGGGTGCAATAAAAAATCCAGGATTTTCCACTCAGAAGAGGACAGGGTG
 CGGATGAAGGAAGAACAGGAGAGGATTCAGCCAAAACCTCGAGAGTTTAGGGAGCGCAAGCCCGAGAGC
 GTGACTATGCAGAGATCCAAGATTTCCATCGGACGTTTGGCTGTGATGACGAGTTGCTGTATGGGGCAT
 GTCATCTATGAAGGCTGCTTGGCTCTCAATGCCAGACCCAGAGCCCAAGAGAAGGGCACCTGATGGAC
 ACTTTGTATGCCAAGTAAAGAAACCTCGGAGCTCCAACCTGGAGACAGCAATCGATCCACTCCTAGCA
 ACCATGACCGGATACAGCGTCTACGGCAAGAGTTCAGCAAGCCAAACAGGATGAGGATGTGGAAGACCG
 GCGCCGTACTACAGCTTTGAGCAATCTTGGTCCAGCTCGCGCCGGCATCGCAGAGTGGTGGCACTCG
 GTGTCCGTGGAGTTCAAGTACAACGGCAGCGCCAGGAGGAGCGAGAGAGCTTCCAGCAGGCCACAGCC
 AGTACAGCTCACTGCCAAGACAAAGCAGGAAGAATGCCAGCTCCATATCACAGGATTCCTGGGAACAGAA
 CTACGCCCTGGTGAAGGCTTCCAGAGTCCAAGGAGAACCCAGGTATTCCAGTTACCAGGGCTCAAGG
 AACGGCTATCTAGCGGGCACGGCTTAAATGCCAGGGTATGCTGGAGACCCAGGAGCTTCTCCGACAGG
 AACAGAGGCGAAAGAGCAGCAGCTGAAGAAGCAGCCTCCAGCTGATGGAGTCAAGGGCCCTTCCGGCA
 AGATGTGCCCCCTTCTCCATCTCAGGTGGCTAGGCTGAACAGACTGCAGACACCGGAGAAAGGGCGGCC
 TTCTACTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_033620
- Insert Size:** 4002 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_033620.2](#), [NP_296369.2](#)

RefSeq Size: 5830 bp

RefSeq ORF: 4002 bp

Locus ID: 93742

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 (3) uses an alternate in-frame splice site in the central coding region, compared to variant 5. The encoded isoform (3) is shorter than isoform 5.