

Product datasheet for **MC221245**

Pard3 (NM_001122850) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard3 (NM_001122850) 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: >MC221245 representing NM_001122850
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGTGACCGTGTGCTTCGGGAGGACCCGGTGGTCTGCCGTGCGGAGATGGCCGCATGAAAGTTT
 TCAGCCTCATCCAGCAGGCGGTGACCCGCTACCGAAGGCGTGGCCAAGGATCCAAACTACTGGATACA
 GGTGCATCGCTTGAGCATGGAGATGGAGGGATTCTAGACCTGGATGACATCCTCTGTGACGTTGTGAT
 GACAAAGACAGACTGGTAGCAGTATTTGATGAACAGGATCCCCACCATGGAGGAGATGGTACCAGCGCCA
 GCTCCACGGGAACCCAGAGTCCAGAGATATTCGGCAGTGAGCTGGGCACCAACAATGTTTCTGCTTTTCA
 GCCTTATCAAGCCACAAGTAAAATTGAGGTACGCCTTCAGTTCTTCGGGCAAAATATGCCTTTCATGTC
 CGCCGGAGCAGCGACCCAGCTTTAACTGGCCTTCCACTTCTGTCAGTGATAACAACTTTTCTCAGAGG
 AGCCCTCCAGGAAAACCCACCCGCTGGTCCACGACAGCTGGCTTTCTCAAGCAGAACCCGCTGGAAG
 TCCAAAACCTGCGACAGGAAGAAAGATGAAAACCTACAGAAGCCTCCACGGGATCCAGTAGCTGGTCC
 AACCGATTCCAGCGAGACAACGCCCGCTCTCCCTGAGCGCCAGCCACCAATGGTAGACCGGTGGCTGG
 AGAAGCAAGAACAGGATGAGGAAGGCACAGAAGAGACAGCAGCCGAGTGGAGCCGGTTGGACATGCTGA
 TACCGGATTGGAGAACATGCCAACTTTTCCCTCGATGATATGGTAAAGCTCGTACAAGTCCCAACGAT
 GGAGGGCCCTGGGAATCCATGTAGTGCCTTTCAGTGTCTGAGGCGGCAGAACATTGGGGTTGTTAGTGA
 AGCGGTTGGAGAAAGGCGGTAAAGCTGAGCAAGAAAACCTTTTCCATGAGAATGACTGCATTGTGAGGAT
 TAACGATGGAGATCTTCGAAACAGAAGATTTGAGCAAGCAACATATGTTCCGCCAAGCTATGCGTGCG
 CGTGTCATTTGGTCCATGTGGTCCCTGCAGCAAAACAAGGAGCAATATGAACAACTGTCCCAACGCGAGA
 AGAACAACCTACTCCCGAGCCGCTTCAGCCCTGACAGCCACTGTGTGGCCAACAGGAGTGTGGCCAAACA
 TGCCCTCAAGCATTGCCAGAGCACCCAGACTGAGTCAGCCACCCGAGCAGCTGGATGCTCACCCCGA
 CTACCTCATAGTCTCACGCCTCAACCAACCACCCGAGCCCGGCCTTGGCTCCACCCAGTGTGCTTA
 GTACCAACGTAGGCAGTGTGTACAACACGAAGAAAGTAGGCAAGAGGCTCAACATCCAGCTTAAGAAAGG
 TACAGAAGGACTGGGATTCAGCATCACCTCCCGGACGTCACCATAGGTGGCTCAGCTCCCATTTATGTC
 AAGAATATCCTTCTCGAGGGGCTGCCATTGAGGATGGCAGACTCAAGGCAGGAGACCGGCTAATAGAGG
 TCAATGGAGTAGATTTAGCAGGCAATCCAGGAGGAAGTTGTTCCCTGTTGAGAAGCACCAAGATGGA
 GGGACTGTGAGCCTTCTGGTCTTTCGTCAGGAAGAGGCTTCCACCCAAGGGAAATGAATGCTGAACCA
 AGCCAGATGCAGACTCCAAAAGAAACGAAAGCTGAAGATGAGGACGTTGTTCTCACACCCGATGGTACCA
 GGGAGTTTCTGACTTTTGAAGTTCACCTGAATGACTCAGGATCTGCAGGGCTTGGTGTGAGTGTCAAGGG
 GAACCGTTCCAAAGAGAACCACGCAGATTTGGGGATCTTCGTTAAATCCATTATCAATGGTGGAGCTGCA
 TCTAAAGATGGAAGGCTGAGGGTAAATGACCAGCTGATAGCTGTGAATGGAGAATCTCTACTGGGCAAAAG
 CCAACCAGGAAGCCATGGAGACTCTACGGAGGTCCATGTCCACCGAGGGCAACAAGCGTGGCATGATCCA
 GCTCATTGTGGCGAGGCGGATCAGCAGATGTAACGAGCTGCGGTCTCTGGGAGCCCTGCTGCACCTGAG
 CTGCCATCGAGACAGAACTGGATGACCGAGAACGCAGGATCTCACACTCCCTCTACAGTGGGATCGAGG
 GGCTGGATGAGTCGCCACCAGGAACGCAGCACTGAGCAGGATAATGGGAACA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001122850

Insert Size: 2226 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_001122850.1, NP_001116322.1</u>
RefSeq Size:	4178 bp
RefSeq ORF:	2226 bp
Locus ID:	93742
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 (4) differs in the 3' UTR and coding region compared to variant 5. The resulting isoform (4) has a shorter and distinct C-terminus compared to isoform 5.</p> <p>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>