

Product datasheet for **MG205193**

Pard6a (BC049593) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard6a (BC049593) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pard6a
Synonyms:	Par6, TAX40, Par-6, Par6c, Tip-40, PAR6alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205193 representing BC049593 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGGCCGAGAGGACTCCGGCGCGCAGTCCCGATAGCATCGTCGAGGTGAAGAGCAAATTTGACG
CCGAGTCCGACGCTTTGCACTACCCCGCACTTCGGTGAGAGGCTTTAGGAGTTCTCGCGATTGCTGTG
TGTGGTACACCAGATCCCTGGCCTGGACGTCCTGCTTGGCTATACGGATGCTCACGGTGACTTGCTGCC
CTCACCAACGATGACAGTTTGCACCGGGCCCTGGCCAGCGGGCCCCACCTCTGCGCCTCTTGGTTCAGA
AACGGGAAGGTGACTCGAGTGGCCTGGCTTTTGCCTCCAACCTCTACAAGGCGCAAGAAAGGGCTCCT
GCTACGACCAGTGGCACCTCTGCGCACCAGGCCACCTTGTAAATCAGCTTGCCCAAGATTTCCGCCAG
GTGCTTTCAGTTATAGATGTGGACCTACTACCTGAGACCCACCGACGAGTGAGGCTGCACAAACATGGTT
CAGACCGTCCCCTGGGCTTCTACATTCGAGATGGCATGAGTGTTCGCGTGGCTCCCAGGGCCTGGAGCG
GGTCCAGGATCTTTCATCTCCCGCCTGGTACGTGGGGCCTGGCTGAGAGTACAGGGCTGCTGGCGGTC
AGTGATGAGATCCTTGAGGTCAACGGCATTGAGGTGGCCGGGAAGACCTTGACCAAGTGACGGACATGA
TGGTCGCCAACAGCCACAACCTCATCGTCACTGTCAAGCCTGCCAACCAGCGTAATAATGTGGTACGGGG
GGCATCTGGGCGTCTGACAGGGCCTTCTCTGTAGGGCCTGGGCTACTGATCCTGACAGTGACGATGAC
AGCAGTGACCTGGTCATTGAGAATCGCCACCCTCCCTGTTCTAATGGGCTGTCTCAGGGGCCCTGTGCT
GGGACCTGCAACCTGGCTGCCTACTTCTGGTGTGGCAGCTCTCTGCCCTCCTTGGATAGCAGAGAGCA
AGCCAATTCTGGCTGGGGGAATGGCATGCGAGGTGATGTTAGCGGATTCAGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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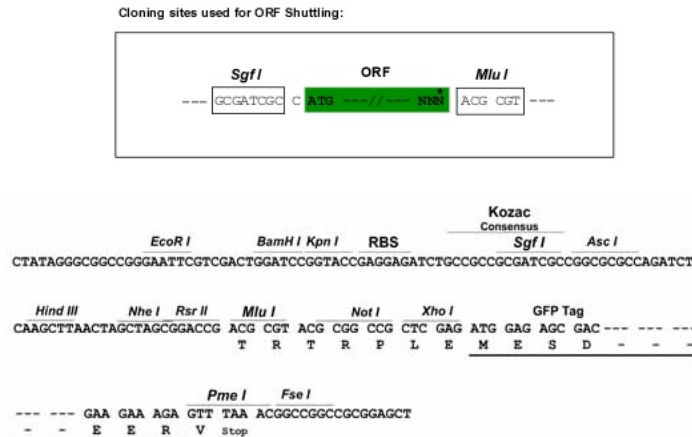
Protein Sequence: >MG205193 representing BC049593
Red=Cloning site Green=Tags(s)

MARPQRTPARSPDSIVEVKSFKDAEFRFALPRTSVRGFQEF S RLLCVVHQIPGLDVLLGYTDAHGDLPL
 LTNDDSLHRLASGPPPLRLLVQKREGDSSGLAFASNSLQRRKGLLLRPVAPLRTRPPLLI SLPQDFRQ
 VSSVIDVDLLPETHRRVRLHKHGS DRPLGFYIRDGMSVRVAPQGLERVPGIF I S RLV RGGLAESTGLLAV
 SDEILEVNGIEVAGKTL DQV T DMMV ANSHNLIVTKPANQRNNVVRGASGRLTGPSSVGPPTDPDSDDD
 SSDLV IENRHPPCSNGLSQGPLCWDLQPGCLLPGAGSSLP SLD SREQANS GWNGMRGDVSGFSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC049593

ORF Size: 1037 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:

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: [BC049593](#), [AAH49593](#)

RefSeq Size: 1271 bp

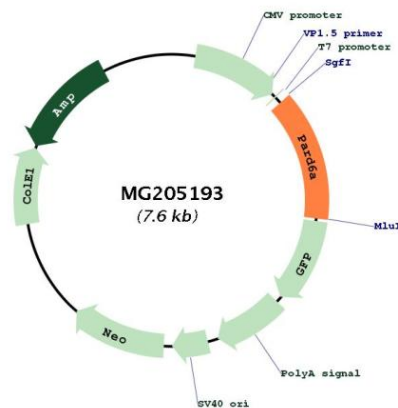
RefSeq ORF: 1037 bp

Locus ID: 56513

Cytogenetics: 8 D3

Gene Summary: Adapter protein involved in asymmetrical cell division and cell polarization processes. Probably involved in the formation of epithelial tight junctions. Association with PARD3 may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly. The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (PubMed:15761148). Regulates centrosome organization and function. Essential for the centrosomal recruitment of key proteins that control centrosomal microtubule organization (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205193