

## Product datasheet for **MG222962**

### Pard6b (NM\_021409) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pard6b (NM\_021409) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Pard6b  
**Synonyms:** AV025615; Par6b  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222962 representing NM\_021409  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGAACCGCGCCACCGGCACGGGGCGAGCAGCGGCTGCCTGGCACCATGGAGGTGAAGAGCAAGTTTG  
GAGCTGAGTTTCGTCGGTTTTCACTGGAAAGATCTAAGCCTGGAAAATTTGAGGAGTTTTACGGACTGCT  
GCAACATGTTACAAGATCCCCAATGTCGACGTGTTGGTGGGCTACGCAGATATCCACGGGGACCTGCTG  
CCTATAAATAATGATGACAACCTACCACAAGGCGGTTTTCCACCGCAATCCACTGCTCAGGATTTTTATAC  
AGAAGAAGGAAGAAGCTGACTACAGTGCCTTTGGCACCGACACCCTGATCAGGAAGAAGAACATGCTGAG  
CAACGTGCTGCTCCCGACAACCACCGGAAGAAGCCTCACATCGTCATCAGCATGCCGCAGGACTCCGG  
CCCGTGTATCCATCATCGACGTGGACATCCTCCAGAGACGCACCGGAGGGTCCGTCTGTACAAGTACG  
GCACAGAGAAGCCGCTGGGCTTCTACATCCGGGATGGCTCCAGCGTCCGAGTGACACCGCACGGCTTGGA  
GAAAGTCCCCGGCATCTTCATATCTCGGCTCGTCCCTGGGGTCTGGCCAGAGCACGGGCTGCTAGCT  
GTCAACGATGAGGTGTTAGAAGTCAACGGTATAGAAGTGTCCGGGAAGAGCCTGGACCAGGTGACTGACA  
TGATGATAGCCAACAGCCGAACCTCATCATCACCGTGCGCCCGCCAACCAGAGGAACAACGTGGTGCG  
CAACAGTCGGACTTCTGGCAGCTCCAGCCAGTCCACTGACAACAGCCTCCTGGGCTTCCCACAGCAGGTG  
GAGGCCAGCTTTCGAGCCGAGGACCAGGACGACGACGAGGACGACATCATCATTGAAGACAGTGGCGAGC  
CGCAGCAGATCCCGAAGGCCACCCCGCCAGAGCCTGGAGTCCCTGACGCAGATCGAGCTCAGCTTTGA  
GTCCGGACAGAACGGGTTCTCCCTCCTCAGGACACGAGCCTGGTGCCTGTGCCCGGACGCTGGACACA  
GAGCTGGAAGCCGGGCTCCGGACCAGAACTCTTAGAGGAAGATGGGACAATCATAACATTG

ACCGTACCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222962 representing NM\_021409  
 Red=Cloning site Green=Tags(s)

MNRGHRHGASSGCLGTMEVKSFKGAEFRFSLERSKPGKFEFYGLLQHVHKIPNVVLDVGVYADIHGDL  
 PINNDDNYHKAVSTANPLLRIFIQKKEEADYSAFGTDLIRKKNMNSVLRPDNHRKKPHIVISMPQDFR  
 PVSSIIDVDILPETHRRVRLKYGTTEKPLGFYIRDGSSVRVTPHGLEKVPGIFISRLVPGGLAQSTGLLA  
 VNDEVLVNGIEVSGKSLDQVTDMMIANSRNLIIIVRPNQRNNVVRNSRTSGSSSQSTDNSLLGFPQQV  
 EASFEPEDQSDDEDDIIIEDSGEPQQIPKATPAQSLSLTQIELSFESGQNGFSPPQDTSLVVPGSLDT  
 ELESRAPDQKLLLEEDGTIITL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021409

**ORF Size:** 1113 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:** [NM\\_021409.2](#), [NP\\_067384.2](#)

**RefSeq Size:** 3409 bp

**RefSeq ORF:** 1116 bp

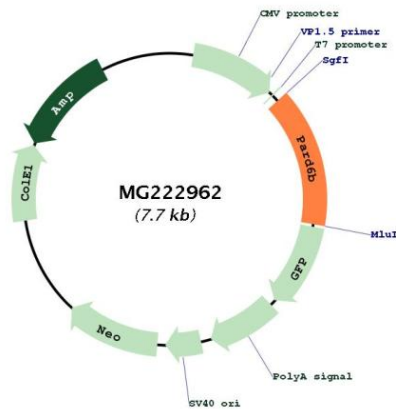
**Locus ID:** 58220

**UniProt ID:** [Q9JK83](#)

**Cytogenetics:** 2 H3

**Gene Summary:** Adapter protein involved in asymmetrical cell division and cell polarization processes. Probably involved in 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.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG222962