

## Product datasheet for **RG209213**

### **PARD6G (NM\_032510) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PARD6G (NM_032510) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARD6G
Synonyms:	PAR-6G; PAR6gamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209213 representing NM_032510 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCGAAGTTTTCAAGTCTCAGACCTTGCATTCTACGATTGCAGCGCAGTGGAAGTCAAGAGCA  
AGTTTGGGGCGGAATCCGAAGTTCTCTCTGGACCGTCATAAGCCTGGGAAGTTGAAGATTTCTACAA  
GCTGGTTGTGCACACCCACCATACTCCAACAGTGATGTAACATTGGCTATGCAGATGTGCACGGAGAC  
CTGCTGCCATCAACAATGATGACAACCTCTGCAAGGCGGTTTCTAGTCAAATCCCTGCTCAGGGTCT  
TCATCCAGAAACGAGAGGAGGCCGAGCGTGGCAGCCTCGGCGGGCTCGCTGTGCAGGGGAGGGCGGC  
GCTGGGCGCGCTGCGTGATGAAGGACCCCGGCGCGTGCACACCTGGACATCGGCCCTCCCGCGCAGCTTC  
CGCCCCGTATCATCCATCATCGATGTGGACCTGGTCCCCGAGACGCACCCGGCAGTGCAGGCTGCACCGGC  
ACGGCTGCAGAAAGCCGCTGGGCTTCTACATCCGCGATGGCGCCAGCGTGCAGGCTGACCCCGCAGGGCT  
GGAGAAGGTGCCCGCATCTTCTCTCGCGCATGGTACCCGGGGGCTGGCGGAGAGCACCAGGGCTGCTG  
GCTGTGAATGACGAGGTCTGGAGGTGAACGGCATTGAGGTGGCCGGGAAGACGCTGGACCAGGTACCG  
ACATGATGATCGCCAACAGCCACAACCTCATCGTACCCTCAAGCCGCCAACAGCGCAACAACGTGGT  
GCGCGGCGGCCGCGCTGGGACAGTCCGACCCGAGAGCGGAGAGCGATGAGGACAACGACGTCATCG  
AGGGCACACTGGAGCCTGCACGTCCCCCAGACCCCGGCGCGCCGCGAGGAGCCTCTCCCGGTCAA  
TGGCGCGGGCTGGCGCAGCGGCTGCAGCGGGACCTGGCCCTGGACGGCGGCTCCAGCGCTGCTCAGC  
TCCCTGCGGGCCGACCCCGTCACAGCCTGGCGTGCAGCGAGCGGCTGGAGGAGCACGGGCCGCGG  
TCACGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG209213 representing NM\_032510  
 Red=Cloning site Green=Tags(s)

MNRSFHKSQTLRFYDCSAVEVKSFKGAEFRFRSLDRHKPGKFEDFYKLVVHTHHISNSDVTIGYADVHGD  
 LLPINDDNFCKAVSSANPLLRVFIQKREEAERGS LGAGSLCRRRRALGALRDEGP RRRRAHLDI GLPRDF  
 RPVSSIIDVDLVPETHRRVRLHRHGCEKPLGFYIRDGASVRVTPHGLEKVP G I F I SRMPVGG LAESTGLL  
 AVNDEVLEVNGIEVAGKTL DQVTDMMIANSHNLIVTVK PANQRNNVVRGGRALGSSGPPSDGTAGFV GPP  
 APRVLQNFHPDEAESEDDNDVVIEGTLEPARPPQTPGAPAGSLSRVNGAGLAQRLQRDLALDGG LQRLLS  
 SLRADPRHSLALPPGGVEEHGPAVTL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032510

**ORF Size:** 1128 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\\_032510.4](#)

**RefSeq Size:** 3847 bp

**RefSeq ORF:** 1131 bp

**Locus ID:** 84552

**UniProt ID:** [Q9BYG4](#)

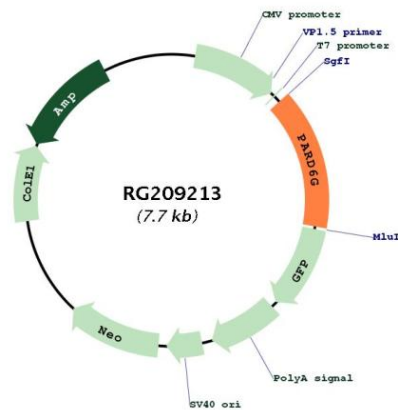
**Cytogenetics:** 18q23

**Protein Families:** Druggable Genome

**Protein Pathways:** Endocytosis, Tight junction

**Gene Summary:** Adapter protein involved in asymmetrical cell division and cell polarization processes. May play a role in the formation of epithelial tight junctions. The PAR6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG209213