

## Product datasheet for **RG209290**

### **PARD6B (NM\_032521) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PARD6B (NM_032521) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARD6B
Synonyms:	PAR6B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209290 representing NM_032521 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCCGAGCCACCGGCACGGGGCGGGCAGCGGCTGCCTGGGCACTATGGAGGTGAAGAGCAAGTTTG  
GAGCTGAATTTTCGTCGGTTTTTCGCTGGAAAGATCAAACCTGGAAAATTTGAGGAGTTTTATGGATTACT  
ACAACATGTTTCATAAGATCCCAATGTTGACGTTTTGGTAGGCTATGCAGACATCCATGGAGACTTACTA  
CCTATAAATAATGATGATAATTATCACAAAGCTGTTTCAACGGCCAATCCACTGCTTAGGATATTTATAC  
AAAAGAAGGAAGAAGCAGACTACAGTGCCTTTGGTACAGACACGCTAATAAAGAAGAAGAATGTTTTAAC  
CAACGTATTGCGTCTGACAACCATAGAAAAAGCCACATATAGTCATTAGTATGCCCAAGACTTTAGA  
CCTGTGCTTCTATTATAGACGTGGATATCTCCAGAAACGCATCGTAGGGTACGCTTTTACAAATACG  
GCACGGAGAAACCCCTAGGATTCTACATCCGGGATGGCTCCAGTGTGAGGTAACACCACATGGCTTAGA  
AAAGGTTCCAGGGATCTTTATATCCAGGCTTGTCCAGGAGGCTGGCTCAAAGTACAGGACTATTAGCT  
GTTAATGATGAAGTTTTAGAAGTTAATGGCATAGAAGTTTCAGGGAAGAGCCTTGATCAAGTAACAGACA  
TGATGATTGCAATAGCCGTAACCTCATATAACAGTGAACCGGCAACCCAGAGGAATAATGTTGTGAG  
GAACAGTCGGACTTCTGGCAGTTCGGTCAGTCTACTGATAACAGCCTTCTTGGTACCCACAGCAGATT  
GAACCAAGCTTTGAGCCAGAGGATGAAGACAGCGAAGAAGATGACATTATCATTGAAGACAATGGAGTGC  
CACAGCAGATTCAAAAGCTGTTCTAATACTGAGAGCCTGGAGTCATTAAACACAGATAGAGTTAAGCTT  
TGAGTCTGGACAGAATGGCTTTATTCCCTCTAATGAAGTGAAGTCTAGCAGCCATAGCAAGCAGCTCAAAC  
ACGGAATTTGAAACACATGCTCCAGATCAAACCTCTTAGAAGAAGATGGAACAATCATAACATTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209290 representing NM\_032521  
 Red=Cloning site Green=Tags(s)

MNRSHRHGAGSGCLGTMEVSKSFGAEFRFSLERSKPGKFEFYGLLQHVHKIPNVVLDVGVYADIHGDL  
 PINNDDNYHKAVSTANPLLRIFIQKKEEADYSAFGTDLIKKNVLTNLRPDNHRKKPHIVISMPQDFR  
 PVSSIIDVDILPETHRRVRLKYGTTEKPLGFYIRDGSSVRVTPHGLEKVPGIFISRLVPGGLAQSTGLLA  
 VNDEVLVNGIEVSGKSLDQVTDMMIANSRNLIIIVRPNQRNNVVRNSRTSGSSGQSTDNSLLGYPQOI  
 EPSFEPEDESEEDDIIIEDNGVPPQIPKAVPNTESLESQTQIELSFESGQNGFIPSNEVSLAAIASSN  
 TEFETHAPDQKLEEDGTIITL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032521

**ORF Size:** 1116 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\\_032521.1](#), [NP\\_115910.1](#)

**RefSeq Size:** 3655 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 84612

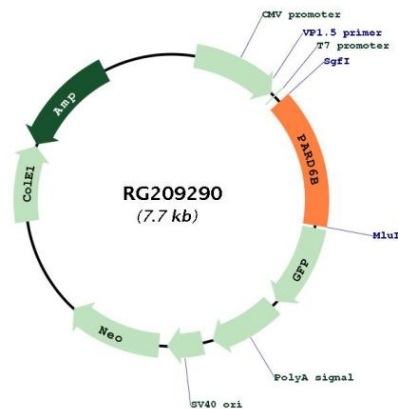
**UniProt ID:** [Q9BYG5](#)

**Cytogenetics:** 20q13.13

**Protein Pathways:** Endocytosis, Tight junction

**Gene Summary:** This gene is a member of the PAR6 family and encodes a protein with a PSD95/Disc-large/ZO1 (PDZ) domain, an OPR domain and a semi-Cdc42/Rac interactive binding (CRIB) domain. This cytoplasmic protein is involved in asymmetrical cell division and cell polarization processes as a member of a multi-protein complex. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG209290