

Product datasheet for RC209213

PARD6G (NM_032510) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARD6G (NM_032510) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PARD6G
Synonyms:	PAR-6G; PAR6gamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209213 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCGAAGTTTTACAAGTCTCAGACCTTGCATTCTACGATTGCAGCGCAGTGGAAGTCAAGAGCA
AGTTTGGGGCGGAATCCGAAGTTCTCTCTGGACCGTCATAAGCCTGGGAAGTTGAAGATTTCTACAA
GCTGGTTGTGCACACCCACCATACTCCAACAGTGATGTAACATTGGCTATGCAGATGTGCACGGAGAC
CTGCTGCCATCAACAATGATGACAACCTCTGCAAGGCGGTTTCTAGTCAAATCCCTGCTCAGGGTCT
TCATCCAGAAACGAGAGGAGGCCGAGCGTGGCAGCCTCGGCGGGCTCGCTGTGCAGGGGAGGCGGGC
GCTGGGCGCGCTGCGTGATGAAGGACCCCGGCGCGTGCACACCTGGACATCGGCCCTCCCGCGGACTTC
CGCCCCGTATCATCCATCATCGATGTGGACCTGGTCCCCGAGACGCACCCGGCAGTGCAGGCTGCACCGG
ACGGCTGCGAGAAGCCGCTGGGCTTCTACATCCGCGATGGCGCCAGCGTGCAGGCTGACCCCGCAGGGCT
GGAGAAGGTGCCCGCATCTTCACTCTCGCGCATGGTACCCGGGGGCTGGCGGAGAGCACCAGGCTGCTG
GCTGTGAATGACGAGGTCTGGAGGTGAACGGCATTGAGGTGGCCGGAAGACGCTGGACCAGGTACCG
ACATGATGATCGCCAACAGCCACAACCTCATCGTACCGTCAAGCCCGCAACCAGCGCAACAACGTGGT
GCGCGGCGGCCGCGGTTGGCAGCTCGGACCGCCCTCGGACGGCACCAGGCGGCTTCGTGGTCCCCC
GCCCGCGCGTCTGCAGAACTCCACCCGACGAGCGGAGAGCGATGAGGACAACGACGTCGTCATCG
AGGGCACACTGGAGCCTGCACGTCCCCCAGACCCCGGCGCGCCCGCAGGCAGCCTCTCCCGGTCAA
TGGCGCGGGCTGGCGCAGCGGCTGCAGCGGGACCTGGCCCTGGACGGCGGCTCCAGCGCTGCTCAGC
TCCCTGCGGGCCGACCCCGTCACAGCCTGGCGTGCAGCGAGCGGCTGGAGGAGCACGGGCCGCGG
TCAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209213 protein sequence
Red=Cloning site Green=Tags(s)

MNRSFHKSQTLRFYDCSAVEVKSFKGAEFRRLSLDRHKPGKFEDFYKLVVHTHHISNSDVTIGYADVHGD
 LLPINDDNFCKAVSSANPLLRVFIQKREEAERGLGAGSLCRRRRALGALRDEGPRRAHLDIGLPRDF
 RPVSSIIDVDLVPETHRRVRLHRHGCEKPLGFYIRDGASVRVTPHGLEKVPGIFISRMVPGGLAESTGLL
 AVNDEVLEVNGIEVAGKTLDQVTDMMIANSHNLIVTVKPANQRNNVVRGGRALGSSGPPSDGTAGFVGPP
 APRVLQNFHPDEAESDEDNDVVIEGTLEPARPPQTPGAPAGLSRVNGAGLAQRLQRDLALDGGLQRLLS
 SLRADPRHSLALPPGGVEEHGPAVTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6859_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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

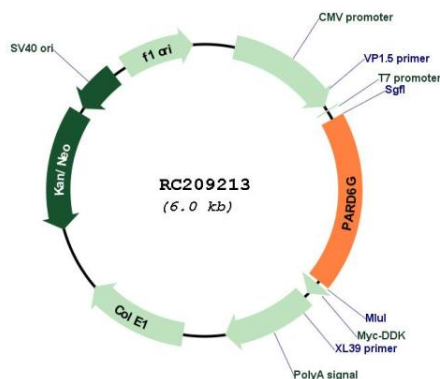
Protein Families: Druggable Genome

Protein Pathways: Endocytosis, Tight junction

MW: 40.9 kDa

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 PARD6-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 RC209213