

Product datasheet for MR222962

Pard6b (NM_021409) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard6b (NM_021409) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pard6b
Synonyms:	AV025615; Par6b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222962 representing NM_021409 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCGCGCCACCGGCACGGGGCGAGCAGCGGCTGCCTGGCACCATGGAGGTGAAGAGCAAGTTTG
GAGCTGAGTTTCGTCGGTTTTCACTGGAAAGATCTAAGCCTGGAAAATTTGAGGAGTTTTACGGACTGCT
GCAACATGTTACAAGATCCCAATGTCGACGTGTTGGTGGGCTACGCAGATATCCACGGGGACCTGCTG
CCTATAAATAATGATGACAACCTACCACAAGCGGTTTTCCACCGCAATCCACTGCTCAGGATTTTTATAC
AGAAGAAGGAAGAAGCTGACTACAGTGCCTTTGGCACCGACACCCTGATCAGGAAGAAGAACATGCTGAG
CAACGTGCTGCGTCCCGACAACCACCGGAAGAAGCCTCACATCGTCATCAGCATGCCGCAGGACTCCGG
CCCGTGTCCATCCATCATCGACGTGGACATCCTCCAGAGACGCACCGGAGGGTCCGTCTGTACAAGTACG
GCACAGAGAAGCCGCTGGGCTTCTACATCCGGGATGGCTCCAGCGTCCGAGTGACACCGCACGGCTTGG
GAAAGTCCCCGGCATCTTCATATCTCGGCTCGTCCCTGGGGTCTGGCCAGAGCACGGGCTGCTAGCT
GTCAACGATGAGGTGTTAGAAGTCAACGGTATAGAAGTGTCCGGGAAGAGCCTGGACCAGGTGACTGACA
TGATGATAGCCAACAGCCGAACCTCATCATCACCGTGCGCCCGCCAACCAGAGGAACAACGTGGTGCC
CAACAGTCGGACTTCTGGCAGCTCCAGCCAGTCCACTGACAACAGCCTCCTGGGCTTCCCACAGCAGGTG
GAGGCCAGCTTTCGAGCCGAGGACCAGGACGACGACGAGGACGACATCATCATTGAAGACAGTGGCGAGC
CGCAGCAGATCCCGAAGGCCACCCCGCCAGAGCCTGGAGTCCCTGACGCAGATCGAGCTCAGCTTTGA
GTCCGGACAGAACGGGTTCTCCCTCCTCAGGACACGAGCCTGGTGCCTGTGCCCGGACGCTGGACACA
GAGCTGGAAGCCGGGCTCCGGACCAGAACTCTTAGAGGAAGATGGGACAATCATAACATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR222962 representing NM_021409
 Red=Cloning site Green=Tags(s)

MNRGHRHGASSGCLGTMEVKSKFGAEFRFSLERSKPGKFEFYGLLQHVHKIPNVVDLVGYADIHGDL
 PINDDNYHKAVSTANPLLRIFIQKKEEADYSAFGTDLIRKKNMNLNVLRPDNRKPKPHIVISMPQDFR
 PVSSIIDVDILPETHRRVRLKYGTTEKPLGFYIRDGSSVRVTPHGLEKVPGIFISRLVPGGLAQSTGLLA
 VNDEVLEVNGIEVSGKSLDQVTDMMIANSRNLIIIVRANQRNNVVRNSRTSGSSSQSTDNSLLGFPQQV
 EASFEPEDQSDDEDDIIIEDSGEPQQIPKATPAQSLESLELQIELSFESGQNGFSPQDTSLVVPGSLDT
 ELESRAPDQKLLLEEDGTIITL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

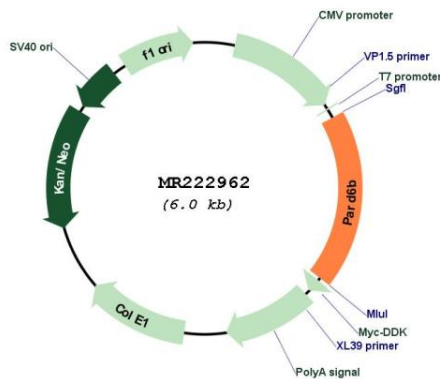
UniProt ID: [Q9JK83](#)

Cytogenetics: 2 H3

MW: 41.5 kDa

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 MR222962