

Product datasheet for **MR225741**

Pard3 (NM_001122850) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard3 (NM_001122850) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pard3
Synonyms:	AA960621; AI256638; Asip; D8Ertd580e; Par-3; Par3; Pard-3; Pard3a; Phip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR225741 representing NM_001122850
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGTGACCGTGTGCTTCGGGAGGACCCGGTGGTCTGCCGTGCGGAGATGGCCGCATGAAAGTTT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR225741 representing NM_001122850
Red=Cloning site Green=Tags(s)

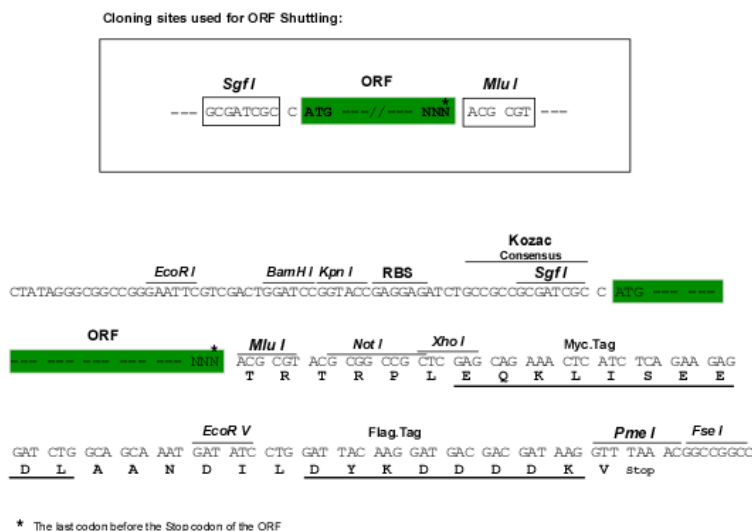
MKVTVCFGRTRVVVPCGDGRMKVFSLIQQAVTRYRKAVAKDPNYWIQVHRLHEHGGGILDLDLDDILCDVAD
 DKDRLVAVFDEQDPHHGGDGTASASTGTQSP E I F G S E L G T N N V S A F Q P Y Q A T S E I E V T P S V L R A N M P L H V
 R R S S D P A L T G L S T S V S D N N F S S E E P S R K N P T R W S T T A G F L K Q N T A G S P K T C D R K K D E N Y R S L P R D P S S W S
 N Q F Q R D N A R S S L S A S H P M V D R W L E K Q E Q D E E G T E E D S S R V E P V G H A D T G L E N M P N F S L D D M V K L V Q V P N D
 G G P L G I H V V P F S A R G G R T L G L L V K R L E K G G K A E Q E N L F H E N D C I V R I N D G D L R N R R F E Q A Q H M F R Q A M R A
 R V I W F H V V P A A N K E Q Y E Q L S Q R E K N N Y S P G R F S P D S H C V A N R S V A N N A P Q A L P R A P R L S Q P P E Q L D A H P R
 L P H S A H A S T K P P A A P A L A P P S V L S T N V G S V Y N T K K V G K R L N I Q L K G T E G L G F S I T S R D V T I G G S A P I Y V
 K N I L P R G A A I Q D G R L K A G D R L I E V N G V D L A G K S Q E E V S L L R S T K M E G T V S L L V F R Q E E A F H P R E M N A E P
 S Q M Q T P K E T K A E D E D V V L T P D G T R E F L T F E V P L N D S G S A G L G V S V K G N R S K E N H A D L G I F V K S I I N G G A A
 S K D G R L R V N D Q L I A V N G E S L L G K A N Q E A M E T L R R S M S T E G N K R G M I Q L I V A R R I S R C N E L R S P G S P A A P E
 L P I E T E L D D R R R I S H S L Y S G I E G L D E S P T R N A A L S R I M G T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001122850

ORF Size: 2223 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_001122850.2](#)

RefSeq Size: 4178 bp

RefSeq ORF: 2226 bp

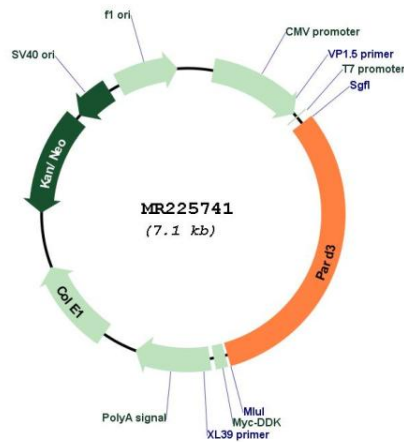
Locus ID: 93742

Cytogenetics: 8 74.66 cM

MW: 81.8 kDa

Gene Summary: Adapter protein involved in asymmetrical cell division and cell polarization processes (By similarity). Seems to play a central role in the formation of epithelial tight junctions (By similarity). Targets the phosphatase PTEN to cell junctions (By similarity). Association with PARD6B may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly (PubMed:11839275). The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (By similarity). Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (By similarity). Involved in Schwann cell peripheral myelination (PubMed:21949390). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225741