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Product datasheet for MR225774

Pard6a (NM_001047436) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard6a (NM_001047436) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pard6a
Synonyms:	0710008C04Rik; 2610010A15Rik; Par-6; PAR-6A; Par6; PAR6alpha; Par6c; TAX40; Tip-40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR225774 representing NM_001047436
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGCGATCCAGTTTGACGCCGAGTTCCGACGCTTTGCACTACCCCGCACTTCGGTGAGAGGCTTTC
AGGAGTTCTCGCGATTGCTGTGTGTGGTACACCAGATCCCTGGCCTGGACGTCCTGCTTGGCTATACGGA
TGCTCACGGTGACTTGCTGCCCCTCACCAACGATGACAGTTTGCACCGGGCCCTGGCCAGCGGGCCCCCA
CCTCTGCGCCTCTTGGTTCAGAAACGGGCAGAAGGTGACTCGAGTGGCCTGGCTTTTGCCTCCAACTCTC
TACAAAGGCGCAAGAAAGGGCTCCTGCTACGACCAGTGGCACCTCTGCGCACCAGGCCACCCTTGTTAAT
CAGCTTGCCCCAAGATTTCCGCCAGGTGTCTTCAGTTATAGATGTGGACCTACTACCTGAGACCCACCGA
CGAGTGAGGCTGCACAAACATGGTTCAGACCGTCCCCTGGGCTTCTACATTCGAGATGGCATGAGTGTTC
GCGTGGCTCCCCAGGGCCTGGAGCGGGTTCCAGGTATCTTCATCTCCCGCCTGGTACGTGGGGGCCTGGC
TGAGAGTACAGGGCTGCTGGCGGTCAGTGATGAGATCCTTGAGGTCAACGGCATTGAGGTGGCCGGGAAG
ACCTTGGACCAAGTGACGGACATGATGGTCGCCAACAGCCACAACCTCATCGTCACTGTCAAGCCTGCCA
ACCAGCGTAATAATGTGGTACGGGGGGCATCTGGGCGTCTGACAGGGCCTTCCTCTGTAGGGCCTGGGCC
TACTGATCCTGACAGTGACGATGACAGCAGTGACCTGGTCATTGAGAATCGCCACCCTCCCTGTTCTAAT
GGGCTGTCTCAGGGGCCCCTGTGCTGGGACCTGCAACCTGGCTGCCTACTTCCTGGTGCTGGCAGCTCTC
TGCCCTCCTTGGATAGCAGAGAGCAAGCCAATTCTGGCTGGGGGAATGGCATGCGAGGTGATGTTAGCGG
ATTCAGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

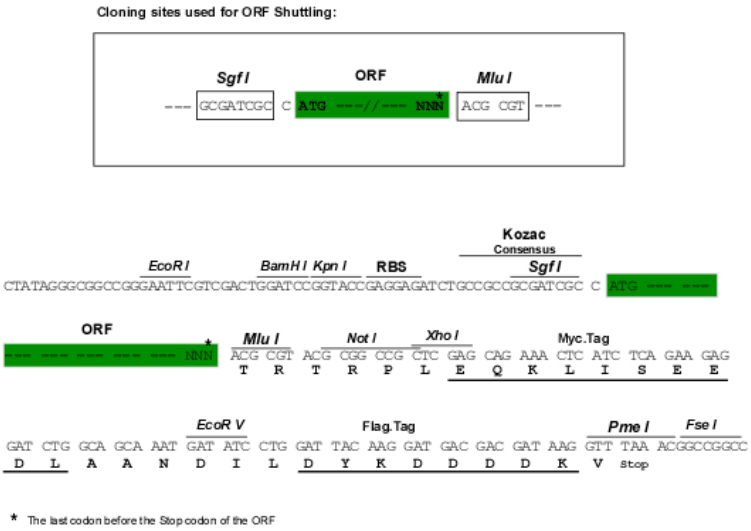
>MR225774 representing NM_001047436
Red=Cloning site Green=Tags(s)

MRAIQFDAEFRRFALPRTSVRGFQEFSRLLCVVHQIPGLDVLLGYTDAHGDLLPLTNDDSLHRALASGPP
PLRLLVQKRAEGDSSGLAFASNSLQRRKKGLLLRPVAPLRTRPPLLISLPQDFRQVSSVIDVDLLPETHR
RVRLHKHGSDRPLGFYIRDGMSVRVAPQGLERVPGIFISRLVRGGLAESTGLLAVSDEILEVNGIEVAGK
TLDQVTDMMVANSHNLIVTVKPANQRNNVVRGASGRLTGPSSVGPGPTDPDSDDDSSDLVIENRHPPCSN
GLSQGPLCWDLQPGCLLPGAGSSLPSLDSREQANSGWGNGMRGDVSGFSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001047436

ORF Size: 990 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_001047436.2, NP_001040901.1

RefSeq Size: 1291 bp

RefSeq ORF: 993 bp

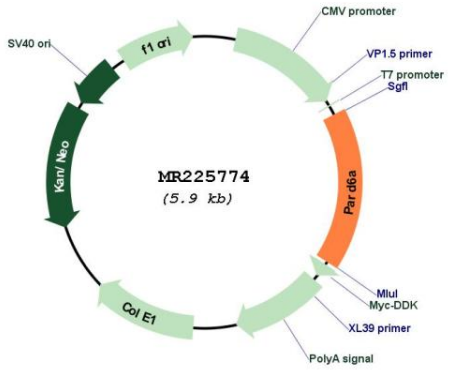
Locus ID: 56513

Cytogenetics: 8 D3

MW: 36 kDa

Gene Summary: Adapter protein involved in asymmetrical cell division and cell polarization processes. Probably involved in the 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 (PubMed:15761148). Regulates centrosome organization and function. Essential for the centrosomal recruitment of key proteins that control centrosomal microtubule organization (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225774