

## Product datasheet for **MC226049**

### **Pard6a (NM\_001286344) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pard6a (NM\_001286344) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pard6a  
**Synonyms:** 0710008C04Rik; 2610010A15Rik; Par-6; PAR-6A; Par6; PAR6alpha; Par6c; TAX40; Tip-40  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226049 representing NM\_001286344  
**Red=Cloning site Blue=ORF Orange=Stop codon**

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGTGTTCGCGTGGCTCCCCAGGGCCTGGAGCGGGTCCAGGTATCTTCATCTCCGCCTGGTACGTG  
GGGCCTGGCTGAGAGTACAGGGCTGCTGGCGGTCACTGATGAGATCCTTGAGGTCAACGGCATTGAGGT  
GGCCGGGAAGACCTTGGACCAAGTGACGGACATGATGGTCGCCAACAGCCACAACCTCATCGTCACTGTC  
AAGCCTGCCAACAGCGTAATAATGTGGTACGGGGGCATCTGGCGTCTGACAGGGCCTTCTCTGTAG  
GGCCTGGGCTACTGATCCTGACAGTGACGATGACAGCAGTGACCTGGTATTGAGAATGCCACCTCC  
CTGTTCTAATGGGCTGTCTCAGGGGCCCTGTGCTGGGACCTGCAACCTGGCTGCCTACTTCTGGTGTCT  
GGCAGTCTCTGCCCTCCTTGGATAGCAGAGAGCAAGCCAATTCTGGCTGGGGGAATGGCATGCGAGGTG  
ATGTTAGCGGATTCAGCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001286344  
**Insert Size:** 513 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001286344.1</a></u> , <u><a href="#">NP_001273273.1</a></u>
<b>RefSeq Size:</b>	1266 bp
<b>RefSeq ORF:</b>	513 bp
<b>Locus ID:</b>	56513
<b>Cytogenetics:</b>	8 D3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon. This encodes a shorter protein (isoform 4), compared to isoform 1.</p>