

## Product datasheet for **MC210066**

### Pard6a (NM\_001047435) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pard6a (NM\_001047435) 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:** >MC210066 representing NM\_001047435  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCAGGCCGAGAGGACTCCGGCGCGCAGTCCCGATAGCATCGTCGAGGTGAAGAGCAAATTTGACG  
CCGAGTTCGGACGCTTTGCACTACCCCGCACTTCGGTGAGAGGCTTTGAGGATTTCTCGCGATTGCTGTG  
TGTGGTACACCAGATCCCTGGCCTGGACGTCCTGCTTGGCTATACGGATGCTCACGGTGACTTGCTGCC  
CTACCAACGATGACAGTTTGCACCGGGCCCTGGCCAGCGGGCCCCACCTCTGCGCCTCTTGTTTCAGA  
AACGGGAAGGTGACTCGAGTGGCCTGGCTTTTGCCTCAAACCTCTCTACAAAGCGCAAGAAAGGGCTCCT  
GCTACGACCAGTGGCACCTCTGCGCACCAGGCCACCCTTGTTAATCAGCTTGCCCCAAGATTTCCGCCAG  
GTGCTTTCAGTTATAGATGTGGACCTACTACCTGAGACCCACCGACGAGTGAGGCTGCACAAACATGGTT  
CAGACCGTCCCCTGGGCTTCTACATTGAGATGGCATGAGTGTTTCGCGTGGCTCCCAGGGCCTGGAGCG  
GGTCCAGGTATCTTCATCTCCCGCCTGGTACGTGGGGCCTGGCTGAGAGTACAGGGCTGCTGGCGGT  
AGTGATGAGATCCTTGAGGTCAACGGCATTGAGGTGGCCGGAAGACCTTGACCAAGTGACGGACATGA  
TGGTCGCCAACAGCCACAACCTCATCGTCACTGTCAAGCCTGCCAACAGCGTAATAATGTGTTACGGG  
GGCATCTGGGCGTCTGACAGGGCCTTCTCTGTAGGGCCTGGCCCTACTGATCCTGACAGTGACGATGAC  
AGCAGTGACCTGGTCATTGAGAATCGCCACCCTCCCTGTTCTAATGGGCTGTCTCAGGGGCCCTGTGCT  
GGGACCTGCAACCTGGCTGCCTACTTCTGGTGTGGCAGCTCTCTGCCCTCCTTGATAGCAGAGAGCA  
AGCCAATTCTGGCTGGGGGAATGGCATGCGAGGTGATGTTAGCGGATTCAGCCTC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001047435



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<b>Insert Size:</b>	1038 bp
<b>OTI Disclaimer:</b>	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).
<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_001047435.2</a></u> , <u><a href="#">NP_001040900.1</a></u>
<b>RefSeq Size:</b>	1281 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	56513
<b>UniProt ID:</b>	<u><a href="#">Q9Z101</a></u>
<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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>