

## Product datasheet for **RN200099**

### **Pard6a (NM\_001003654) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pard6a (NM\_001003654) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pard6a  
**Synonyms:** Par-6a; Par6a  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN200099 representing NM\_001003654  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGTTCGTGTGGCTCCTCAGGGTCTGGAGCGGGTACCTGGGATCTTCATCTCCCGCTGGTCCGTG  
GGGGCCTGGCTGAGAGCACAGGGCTGCTGGCGGTCACTGATGAGATCCTCGAGGTCAACGGCATTGAGGT  
GGCCGGGAAGACCTTGGACCAAGTGACGGACATGATGGTTGCCAACAGCCATAACCTCATTGTCACTGTC  
AAGCCTGCCAACACGCGTAATAATGTGGTACGAGGGGCATCTGGCGCTCTGACAGGGCCTTCTTCTGTAG  
GGCCTGGGCTACTGATCCTGACAGTGACGATGACAACAGTGACCCGGTATTGAAAATCGCCACCTCC  
CTGTTCTAATGGGCTGTCTCAGGGACCCCTGTGCTGGGACCTGCAACCTGGCTGCCTACTTCTAGTGCT  
GGCAGCTCTTGCCCTCTTGGATAGCAGAGAGCAAGCCAATTCTGGCTGGGGGAATGGCATGCGAGGTG  
ATGTTAGTGGATTCAGCCTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001003654  
**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>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>NM_001003654.2</u> , <u>NP_001003654.2</u>
<b>RefSeq Size:</b>	1221 bp
<b>RefSeq ORF:</b>	513 bp
<b>Locus ID:</b>	307799
<b>Cytogenetics:</b>	19q12
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a component of the partitioning defective complex, a protein complex involved in controlling epithelial cell polarity as well as other cell processes. In rat testis cells, the protein localizes to the apical ectoplasmic specialization at the Sertoli-elongating spermatid interface and at the blood-testis barrier. Accordingly, knockdown of this gene in Sertoli cell epithelia results in compromised blood-testis barrier integrity. Knockdown of this gene in various neuronal cell types results in a variety of phenotypes including abnormal dendritic spine morphogenesis and defective axon outgrowth to the spinal midline. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and uses a downstream start codon compared to variant 1. It encodes isoform 2, which has a shorter N-terminus than isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>