

Product datasheet for **RN200100**

Pard6a (NM_001003653) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard6a (NM_001003653) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pard6a
Synonyms:	Par-6a; Par6a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN200100 representing NM_001003653 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGGCCGAGAGGACTCCGGCGCGCAGTCCGGATAGCATCGTCGAGGTGAAGAGCAAATTTGACG
 CCGAGTTCGACGCTTTGCATTACCCCGCACTTCAGTGAGAGGCTTTCAGGAGTTCTCGCGGTGCTGTG
 TGTGGTACACAGATCCCTGGCCTGGATGTGCTGCTTGGCTATACGGATGCTCACGGTGACTTGCTGCCC
 CTCACCAATGATGACAGTTTGACCGGGCCTTGCCAGCGGGCCCCACCTCTGCGCCTGTTGGTCCAGA
 AACGGGAAGGTGACTCGAGTGGCCTGGCTTTTGCCTCCAACCTCTCTACAGAGGCGCAAGAAAGGGCTCCT
 GCTACGACCAGTGGCACCTCTGCGCACCAGGCCACCCTTGTTAATCAGCTTGCCCCAAGATTTCCGCCAG
 GTGTCTTCAGTTATAGACGTGGACCTACTACCTGAGACCCATCGACGTGTGAGACTGCACAAACATGGCT
 CAGACCGTCCCCTGGGCTTCTACATTCGAGATGGCATGAGTGTTCTGTGGCTCCTCAGGGTCTGGAGCG
 GGTACCTGGGATCTTCATCTCCCGCCTGGTCCGTGGGGGCTGGCTGAGAGCACAGGGCTGCTGGCGGT
 AGTGATGAGATCCTCGAGGTCAACGGCATTGAGGTGGCCGGGAAGACCTTGACCAAGTGACGGACATGA
 TGGTTGCCAACAGCCATAACCTCATTGTCACTGTCAAGCTGCCAACCAGCGTAATAATGTGGTACGAGG
 GGCATCTGGGCGTCTGACAGGGCCTTCTCTGTAGGGCCTGGGCTACTGATCCTGACAGTGACGATGAC
 AACAGTGACCCGGTCATTGAAAATCGCCACCCTCCCTGTTCTAATGGGCTGTCTCAGGGACCCCTGTGCT
 GGGACCTGCAACCTGGCTGCCTACTTCTAGTGCTGGCAGCTCTCTGCCCTCCTTGGATAGCAGAGAGCA
 AGCCAATTCTGGCTGGGGGAATGGCATGCGAGGTGATGTTAGTGGATTACGCCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001003653
Insert Size:	1038 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).
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:	<u>NM_001003653.2, NP_001003653.2</u>
RefSeq Size:	1189 bp
RefSeq ORF:	1038 bp
Locus ID:	307799
Cytogenetics:	19q12
Gene Summary:	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] Transcript Variant: This variant (1) encodes the longer isoform (1). 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.