

Product datasheet for **RG204843**

PAR6 (PARD6A) (NM_001037281) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAR6 (PARD6A) (NM_001037281) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAR6
Synonyms:	PAR-6A; PAR6; PAR6alpha; PAR6C; TAX40; TIP-40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204843 representing NM_001037281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGGCCGAGAGGACTCCGGCGCGCAGTCCCGATAGCATCGTCGAGGTGAAGAGCAAATTTGACG
CCGAGTCCGACGCTTCGCGCTGCCTCGCGCTTCGGTGAAGCGGCTTCCAGGAGTTCTCGCGGTTGCTGCC
GGCGGTGACACAGATCCCGGGCCTGGACGTGCTACTTGGCTATACGGATGCTCATGGCGACCTGCTGCC
CTACCAACGACGACAGCCTGCACCGGGCCTGGCCAGCGGGCCCCGCCACTGCGCCTACTGGTGCAGA
AGCGGGAAGCTGACTCCAGCGGCTGGCTTTTGCCTCCAATCTCTGCAGCGGCGCAAGAAAGGGCTCTT
GCTGCGGCCAGTGGCACCCCTGCGCACCCGGCCACCCCTTGCTAATCAGCCTGCCCAAGATTTCCGCCAG
GTTTCCTCAGTCATAGACGTGGACCTACTGCCTGAGACCCACCGAGGGTGCAGGCTGCACAAGCATGGTT
CAGACCGCCCCCTGGGCTTCTACATCCGAGATGGCATGAGCGTGCCTGGCTCCCCAGGGCCTGGAGCG
GGTTCCAGGAATCTTCATCTCCCGCCTGGTACGTGGGGTCTGGCTGAGAGTACAGGGCTGCTGGCGGTC
AGTGATGAGATCCTCGAGGTCAATGGCATTGAAGTAGCCGGGAAGACCTTGACCAAGTGACGGACATGA
TGGTTGCCAACAGCCATAACCTCATTGTCACTGTCAAGCCCGCAACAGCGCAATAACGTGGTGGCAGG
GGCATCTGGGCGTTTGACAGGTCTCCTCCTGCAGGGCCTGGCCTGCTGAGCCTGATAGTGACGATGAC
AGCAGTGACCTGGTCATTGAGAACCAGCCAGCCTCCAGTTCCAATGGGCTGTCTCAGGGCCCCGTGCT
GGGACCTGCACCCCTGGCTGCCGACATCCTGGTACCCGACGCTCTCTGCCCTCCCTGGATGACCAGGAGCA
GGCCAGTTCTGGCTGGGGAGTGCATTGAGGAGATGGTAGTGCTTCAGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204843 representing NM_001037281
 Red=Cloning site Green=Tags(s)

MARPQRTPARSPDSIVEVKSFKDAEFRRFALPRASVSGFQEF S RLLRAVHQIPGLDVLLGYTDAHGDLLP
 LTNDDSLHRALASGPPPLRLLVQKREADSSGLAFASNSLQRRKGLLLRPVAPLRTRPPLLI SLPQDFRQ
 VSSVIDVDLLPE THRRVRLHKHGS DRPLGFYIRDGMSVRVAPQGLERVPGIF I S RLV RGGLAESTGLLAV
 SDEILEVNGIEVAGKTL DQVTDMMV ANSHNLIVTKPANQRNNVVRGASGRLTGPPSAGPGAEPDSDDD
 SSDLV IENRQPPSSNGLSQGPPC WDLHPGCRHPGTRSSLSLDDQE QASSGWGSRIRGDGSGFSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037281

ORF Size: 1035 bp

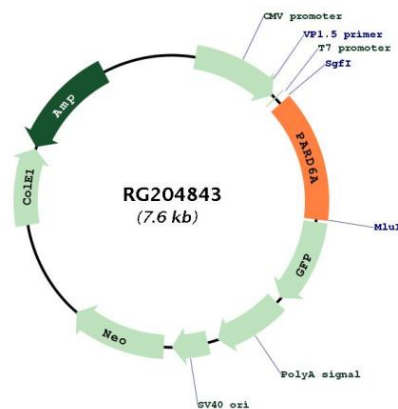
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_001037281.2
RefSeq Size:	1270 bp
RefSeq ORF:	1038 bp
Locus ID:	50855
UniProt ID:	Q9NPB6
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Endocytosis, Tight junction
Gene Summary:	This gene is a member of the PAR6 family and encodes a protein with a PSD95/Discs-large/ZO1 (PDZ) domain and a semi-Cdc42/Rac interactive binding (CRIB) domain. This cell membrane protein is involved in asymmetrical cell division and cell polarization processes as a member of a multi-protein complex. The protein also has a role in the epithelial-to-mesenchymal transition (EMT) that characterizes the invasive phenotype associated with metastatic carcinomas. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204843