

## Product datasheet for **RG230680**

### **PARD3 (NM\_001184791) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PARD3 (NM_001184791) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARD3
Synonyms:	ASIP; Baz; PAR3; PAR3alpha; PARD-3; PARD3A; PPP1R118; SE2-5L16; SE2-5L1T1; SE2-5T2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230680 representing NM_001184791 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTCGTGCCGTGCGGGGACGGCCACATGAAAGTTT  
TCAGCCTCATCCAGCAGGCGGTGACCCGCTACCGGAAGGCCATCGCCAAGGATCCAACTACTGGATACA  
GGTGCATCGTTGGAACATGGAGATGGAGGAATACTAGACCTTGATGACATTCTTTGTGATGTAGCAGAC  
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ATTAGTAAAACGATTGGAGAAAGGTGGTAAAGCTGAACATGAAAATCTTTTTCGTGAGAATGATTGCATT  
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AAGATGGAAGGAAGTGTGAGCCTTCTGGTCTTTCGCCAGGAAGACGCCTTCCACCCAAGGGAAGTAAAAG  
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GGCCCTTCCGGCAAGATGTGCCCCCTCCCTTCTCAGGTTGCGAGGCTGAACAGACTTCAGACTCCTGA  
GAAAGGGAGGCCCTTCTATTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG230680 representing NM\_001184791  
 Red=Cloning site Green=Tags(s)

MKVTVCFGRTRVVVPCGDGHMKVFSLIQQAVTRYRKAIAKDPNYWIQVHRLHGDGGILDLDLDDILCDVAD  
 DKDRLVAVFDEQDPHHGGDGTASSTGTQSP E I F G S E L G T N N V S A F Q P Y Q A T S E I E V T P S V L R A N M P L H V  
 R R S S D P A L I G L S T S V S D S N F S S E E P S R K N P T R W S T T A G F L K Q N T A G S P K T C D R K D E D G T E E D N S R V E P V G  
 H A D T G L E H I P N F S L D D M V K L V E V P N D G G P L G I H V V P F S A R G G R T L G L L V K R L E K G G K A E H E N L F R E N D C I  
 V R I N D G D L R N R R F E Q A Q H M F R Q A M R T P I I W F H V V P A A N K E Q Y E Q L S Q S E K N N Y S S R F S P D S Q Y I D N R S V  
 N S A G L H T V Q R A P R L N H P P E Q I D S H S R L P H S A H P S G K P P S A P A S A P Q N V F S T T V S S G Y N T K K I G K R L N I Q L  
 K K G T E G L G F S I T S R D V T I G G S A P I Y V K N I L P R G A A I Q D G R L K A G D R L I E V N G V D L V G K S Q E E V V S L L R S T  
 K M E G T V S L L V F R Q E D A F H P R E L K A E D E D I V L T P D G T R E F L T F E V P L N D S G S A G L G V S V K G N R S K E N H A D L  
 G I F V K S I I N G G A A S K D G R L R V N D Q L I A V N G E S L L G K T N Q D A M E T L R R S M S T E G N K R G M I Q L I V A R R I S K C  
 N E L K S P G S P P G P E L P I E T A L D D R R E R I S H S L Y S G I E G L D E S P S R N A A L S R I M G Y Q L S P T V N M P Q D D T V I  
 I E D D R L P V L P P H L S D Q S S S S H D D V G F V T A D A G T W A K A A I S D S A D C S L S P D V D P V L A F Q R E G F G R Q S M S E  
 K R T K Q F S D A S Q L D F V K T R K S K S M D L G S S P S R D V G P S L G L K K S S S L E S L Q T A V A E V T L N G D I P F H R P R P R I  
 I R G R C N E S F R A A I D K S Y D K P A V D D D D E G M E T L E E D T E E S S R S G R E S V S T A S D Q P S H S L E R Q M N G N Q E K G  
 D K T D R K K D K T G K E K K D R D K E K D K M K A K K G M L K G L G D M F R I Q A K T R E F R E R Q A R E R D Y A E I Q D F H R T F G C  
 D D E L M Y G G V S S Y E G S M A L N A R P Q S P R E G H M M D A L Y A Q V K K P R N S K P S P V D S N R S T P S N H D R I Q R L R Q E F Q  
 Q A K Q D E D V E D R R R T Y S F E Q P W P N A R P A T Q S G R H S V S V E V Q M Q R Q R Q E E R E S S Q Q A Q R Q Y S S L P R Q S R K N A  
 S S V S Q D S W E Q N Y S P G E G F Q S A K E N P R Y S S Y Q G S R N G Y L G G H G F N A R V M L E T Q E L L R Q E Q R R K E Q Q M K K Q P  
 P S E G P S N Y D S Y K K V Q D P S Y A P P K G P F R Q D V P P S P S Q V A R L N R L Q T P E K G R P F Y S

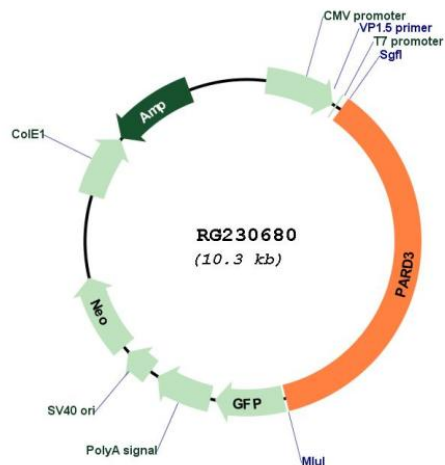
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001184791

**ORF Size:** 3732 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:**

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\\_001184791.1](#), [NP\\_001171720.1](#)

**RefSeq Size:** 5677 bp

**RefSeq ORF:** 3735 bp

**Locus ID:** 56288

**UniProt ID:** [Q8TEW0](#)

**Cytogenetics:** 10p11.22-p11.21

**Protein Pathways:** Adherens junction, Chemokine signaling pathway, Endocytosis, Neuroactive ligand-receptor interaction, Tight junction

**Gene Summary:** This gene encodes a member of the PARD protein family. PARD family members interact with other PARD family members and other proteins; they affect asymmetrical cell division and direct polarized cell growth. Multiple alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Oct 2011]