

## Product datasheet for **RG230625**

### **PARD3 (NM\_001184792) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PARD3 (NM_001184792) 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:	>RG230625 representing NM_001184792 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTCGTGCCGTGCGGGGACGGCCACATGAAAGTTT  
TCAGCCTCATCCAGCAGGCGGTGACCCGCTACCGGAAGGCCATCGCCAAGGATCCAACTACTGGATACA  
GGTGCATCGTTGGAACATGGAGATGGAGGAATACTAGACCTTGATGACATTCTTTGTGATGTAGCAGAC  
GATAAAGACAGACTGGTAGCAGTGTGGATGAGCAGGATCCACATCACGGAGGTGATGGCACCAGTGCCA  
GTTCCACGGGTACCCAGAGCCCAGAGATATTTGGTAGTGAGCTTGGCACCAACAATGTCTCAGCCTTTCA  
GCCTTACCAAGCAACAAGTAAAATTGAGGTCACACCTTCAGTCCTTCGAGCAAATATGCCTTTCATGTT  
CGACGCAGTAGTGACCCAGCTCTAATTGGCCTCTCCACTTCTGTGAGTATAGTAATTTTTCTCTGAAG  
AGCCTTCAAGGAAAAATCCCACACGCTGGTCAACAACAGCTGGCTTCTCAAGCAGAACACTGCTGGGAG  
TCCTAAAACCTGCGACAGGAAGAAAGATGAAAACACAGAACCTCCCGCGGGATACTAGTAAGTGGTCT  
AACCAATTTAGAGAGACAATGCTCGCTCGTCTGAGTGCCAGTCACCAATGGTGGGCAAGTGGCTGG  
AGAAACAAGAACAGGATGAGGATGGGACAGAAGAGGATAACAGTCGTGTTGAACCTGTTGGACATGCTGA  
CACGGGTTTGGAGCATATACCAACTTTTCTCTGGATGATATGGTAAAGCTCGTAGAAGTCCCAACGAT  
GGAGGGCCTCTGGGAATCCATGTAGTGCCTTTTCAGTGCTCGAGGGCGCAGAACCCGTTGGGTTATTAGTAA  
AACGATTGGAGAAAGGTGGTAAAGCTGAACATGAAAATCTTTTTCTGAGAAATGATTGCATTGTCAGGAT  
TAATGATGGCGACCTTCGAAATAGAAGATTTGAACAAGCACAAACATATGTTTCGCAAGCCATGCGTACA  
CCCATCATTTGGTTCCATGTGGTTCCTGCAGCAAATAAGAGCAGTATGAACAACATCCCAAAGTGAAG  
AGAACAATTACTATTCAAGCCGTTTTAGCCCTGACAGCCAGTATATTGACAACAGGAGTGTGAACAGTGC  
AGGGCTTACACGGTGCAGAGAGCACCCCGACTGAACCACCCGCTGAGCAGATAGACTCTCACTCAAGA  
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GTACGACTGTAAGCAGTGGTTATAACACCAAAAAAATAGGCAAGAGGCTTAATATCCAGCTTAAGAAAGG  
TACAGAAGGTTTGGGATTCAGCATCACTCCAGAGATGTAACAATAGGTGCTCAGTCCAATCTATGTG



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AAAAACATTCTCCCCGGGGGGCGGCCATTGAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGG  
TAAATGGAGTAGATTTAGTGGGCAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAAGCACCAGATGGA  
AGGAACTGTGAGCCTTCTGGTCTTTCCGCCAGGAAGACGCCTTCCACCCAAGGAACTGAATGCAGAGCCA  
AGCCAGATGCAGATTCAAAAGAAAACGAAAGCAGAAGATGAGGATATTGTTCTTACACCTGATGGCACCA  
GGGAATTTCTGACATTTGAAGTCCCCTTAATGATTCAGGATCTGCAGGCCTTGGTGTCAAGTGTCAAAGG  
TAACCGGTCAAAGAGAACCACGCAGATTTGGGAATCTTGTCAAGTCCATTATTAATGGAGGAGCAGCA  
TCTAAAGATGGAAGGCTTCGGGTGAATGATCACTGATAGCAGTAAATGGAGAATCCCTGTTGGCAAGA  
CAAACCAAGATGCCATGGAAACCCTAAGAAGGTCTATGTCTACTGAAGCAATAAACGAGGAATGATCCA  
GCTTATTGTTGCAAGGAGAATAAGCAAGTGAATGAGCTGAAGTCACTGGGAGCCCCCTGGACCTGAG  
CTGCCATTGAAACAGCGTTGGATGATAGAGAACGAAGAATTTCCATTCCCTCTACAGTGGGATTGAGG  
GGCTTGATGAATCGCCCAGCAGAAATGCTGCCCTCAGTAGGATAATGGGTAATACCAGCTGTCCCTAC  
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GGAGAGTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATTCCTTTCCATCGTCCACGGCCG  
CGGATAATCAGAGGCAGGGGATGCAATGAGAGCTTCCAGAGCTGCCATCGACAAATCTTATGATAAATCCC  
CGGTAGATGATGATGATGAAGGCATGGAGACCTTGAAGAAGACACAGAAGAAAGTTCAAGATCAGGGAG  
AGAGTCTGATCCACAGCCAGTATCAGCCTTCCCCTCTCTGGAGAGACAAATGAATGGAACCAAGAG  
AAAGGTGATAAGACTGATAGAAAAAGGATAAACTGGAAAAGAAAAGAAAGATAGAGATAAGGAGA  
AGGATAAAATGAAAGCCAAGAAGGGAATGCTGAAGGGCTTGGGAGACATGTTGAGCCTTGCCAACTGAA  
GCCCAGAGAAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230625 representing NM\_001184792  
Red=Cloning site Green=Tags(s)

MKVTVCFGRTRVVPCGDGHMKVFLSIQQAVTRYRKAIAKDPNYWIQVHRLEHGDGGILDLDLDCDVAD  
DKDRLVAVFDEQDPHGGDGTSAASSTGTQSPFIQSELTNNVSAFQPYQATSEIEVTPSVLRANMPLHV  
RRSSDPALIGLSTSVSDSNFSSEEPSRKNPTRWSTTAGFLKQNTAGSPKTCDRKKDENYRSLPRDTSNWS  
NQFQRDNARSSLASHPMVGKWLKQEQDEDEGTEEDNSRVEPVGHADTGLEHIPNFSLDDMVKLVEVPND  
GGPLGIHVVPFSARGGRTLGLLVKRLKGGKAEHENLFRENDIVRINDGDLRNRREFQAQHMFRQAMRT  
PIIWFHVVPAANKEQYQLSQSEKNYYSSRFSQYIDNRSVNSAGLHTVQRAPRLNHPPEQIDSHSR  
LPHSAHPSGKPPSAPASAPQNVFSTTVSSGYNTKKIGKRLNIQLKKGTEGLGFSITSRDVTIGGSAPIYV  
KNILPRGAAIQDGRKAGDRLIEVNGVDLVGKSQEEVVSLLRSTKMEGTVSLLVFRQEDAFHPRELNAEP  
SQMQIPKETKAEDIEDIVLTPDGTREFLTFEVPLNDSGSAGLGVSVKGNRSKENHADLGIFVKSIIINGGAA  
SKDGRLRVNDQLIAVNGESLLGKTNQDAMETLRRSMSTEGNKRGMQLIVARRISKCNELKSPGSPGPE  
LPIETALDDRERRISHSLYSGIEGLDESPSRNAALSRIMGKYQLSPTVNMPQDDTVIIEDRLPVLPPHL  
SDQSSSSSHDDVGFVTADAGTWAKAAISDSADCSLSPDVPVLAQREGFGRQSMSEKRTKQFSDASQLD  
FVKTRKSKSMDLGIADETKLNVTDDQKAGSPSRDVGPSLGLKSSSLESQTAVAEVTLNGDIPFHRPRP  
RIIRGRGCNESFRAAIDKSYDKPAVDDDDDEGMETLEEDTEESSRSGRESVSTASDQPSHSLERQMNGNQE  
KGDKTRKDKTKGKEKKKDRDKEKDKMKAKKGMKGLGDMFSLAKLKPEKR

TRTRPLE - GFP Tag - V

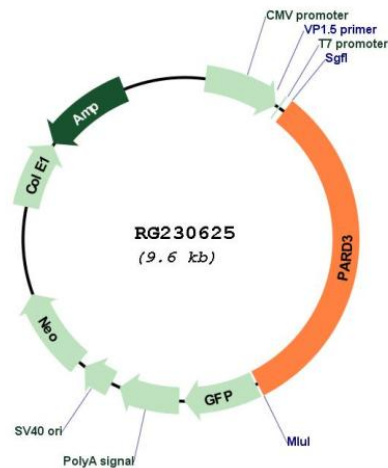
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001184792

ORF Size: 3093 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001184792.1</a> , <a href="#">NP_001171721.1</a>
<b>RefSeq Size:</b>	3520 bp
<b>RefSeq ORF:</b>	3096 bp
<b>Locus ID:</b>	56288
<b>UniProt ID:</b>	<a href="#">Q8TEW0</a>
<b>Cytogenetics:</b>	10p11.22-p11.21
<b>Protein Pathways:</b>	Adherens junction, Chemokine signaling pathway, Endocytosis, Neuroactive ligand-receptor interaction, Tight junction
<b>Gene Summary:</b>	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]