

Product datasheet for **RG218812**

PARD3B (NM_057177) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARD3B (NM_057177) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARD3B
Synonyms:	ALS2CR19; PAR3B; PAR3beta; PAR3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218812 representing NM_057177 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAGTGACCGTGTGCTTCGGCAGGACGGGCATCGTGGTGCCCTGCAAGGAGGGCCAGCTGCGCGTCG
 GCGAGCTCACCCAGCAGGCGCTGCAGCGGTACCTGAAGACCCGGGAGAAGGGTCTGGTTACTGGGTGAA
 GATTCATCACTTAGAATATACAGATGGAGGAATCCTGGATCCAGATGATGTCTTGGCAGATGTTGTTGAA
 GATAAAGACAAGCTGATTGCTGTGTTTGAAGAACAAGAACCCTCCACAAGATTGAGAGCCCCAGTGGA
 ACCCTGCAGATCGGCAGAGCCCAGATGCTTTTGAGACAGAAGTGGCCGCCCACTGGCCGCATTTAAGCC
 AATTGGTGGGGAGATTGAAGTAACCCCTTCTGCTCTAAACTAGGCACTCCACTGCTGGTGAGGAGAAGC
 AGTGACCCAGTGCCAGGCCACCTGCTGATACCCAGCCAAGCGCTTCACACCCTGGTGGCCAGAGTCTGA
 AACTGGTTGTTCCAGATTCCACGCAGAATTGGAAGACAGAGAAGTTTGAATGGTGACAGACAGAAT
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 GGCCCATTTGGGAATACATGTAGTGCCCTTCTTTTCATCTCTGAGTGGAAGGATTCTAGGACTCTTCATCC
 GAGGCATTGAAGACAACAGCAGGTCCAAGCGGGAGGGACTATTTACGAAATGAATGTATTGAAAAAT
 CAACAATGTGGATCTCGTAGACAAAACCTTTGCTCAGGCTCAAGATGTCTTCGCCAGGCAATGAAATCT
 CCAAGTGTGCTCCTCCAGTGCTTCTCCACAAAACCGTGAACAGTATGAAAAGTCAGTCATTGGCTCTC
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 ACTAAAGACAGCAAACTCACAGGAACCGATAGTCTGAAACAGATGCATCAGCTTCCCTGCAACAAAAC
 AAGAGTCCCCGAGTACCAAGGCTGGGAGGAAAACCATCCTCTCCCTCACTCTCGCTCTCATGGGATTTG
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 CCGCCAAGAAGGACATTTCTGCCCGAGAGTTGAAAGGAGAACCTGACTGCTGTGCACTCTCTCTGGAG


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ACAAGCGAGCAGCTCACCTTTGAGATCCCCCTGAATGATTCAGGTTCTGCTGGCCTCGGGGTGAGCTTAA
AAGGGAACAAATCCAGAGAACTGGAACAGACTTGGGGATTTTATCAAATCCATCATTATGGAGGCGC
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TCCGCTTTGAAGGGATGGAGAGGCAGTACGCATCCTTACCCAGGGGAGGACCCGAGATCCTGTAGACTA
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ACCCACCCCGCAGCTCCCGAGCAAAAGGACCTTTGACAAGACGTTCCGCCTTCCCTCCCGAGCA
CCAAAGAATGCCAGCCTATCAGGAAACAGGCAGACCAGGGCCCGTGGGGCAGCCAGACCAGTACCCT
TACCGAACCCAGGATTCCCGGCAGAAGAACCCCATGACTGCAGCCGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218812 representing NM_057177
Red=Cloning site Green=Tags(s)

MKVTVCFGRTGIVVPCKEQLRVGELTQQALQRYLKTREKPGYWVKIHHLEYTDGGILDPPDVLADVVE
DKDKLIIVFEEQEPLHKIESPSGNPADRQSPDAFETEVAAQLAAFPIGGEIEVTPSALKLGTPLLVRSS
SDPVPGPPADTQPSASHPGGQSLKLVPDSTQNLREDREVLNGVQTELLTSPRTKDTLSDMTRTVEISGEG
GPLGIHVVPFFSSLSGRILGLFIRGIEDNSRSKREGLFHENEIVKINNVDLVDKTFQAQDVFRQAMKS
PSVLLHVLPPQNREQYEKSVIGSLNIFGNNDGVLKTKVPPVHKGSLKTANLTGTDSPETDASASLQQN
KSPRPVRLGGKPSPSLSPLMGFGSNKNAKKIKIDLKKGPEGLGFTVVTRDSSIHPGPIFVKNILPKGA
AIKDGRQLQSGDRILEVNGRDVTGRTQEELVAMLRSTKQGETASLVIARQEGHFLPRELKGEPPDCCALSLE
TSEQLTFEIPLNDSGSAGLGVSLKGNKSRETGTDLGIFIKSIIHGGAFFKDGRLRMNDQLIAVNGESLLG
KSNHEAMETLRRSMSMEGNIRGMIQLVILRRPERPMEDPAECGAFSKPCFENCQNAVTTSSRRNDNSILHP
LGTCSQDKQKGLLLPNDGWAESVPPSPTPHSALGLLEDYSHSSGVDSAVYFPDQHINFRSVTPARQP
ESINLKASKSMDLVPDESKVHSLAGQKSDGLSDKSSSHSGQALNCESAPQGNSELEDMENKARKVKKTK
EERERIGAKHQELREKQARGLLDYATGATGSVYDMDDEMDPNYARVNHFRPCTSANVFRSPSPPRAGP
FGYPRDGHPLSPERDHLGLYAKVKNKPYHPLVPADSGRPTGGSTDRIQKLKREYYQARREGFPLYEDDEG
RARPSEYDLLWVPGRPDGNHNLRFEGMERQYASLPRGGPADPVDYLPAAPRGLYKERELPYYPGAHPM
HPPKGSYPRPTELRVADLRYPQHYPPPPAPQHKGFPRQDVPPSPQHQRMPAYQETGRPGPRGSGDPQYP
YRTQDSRQKNPMTAAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGCGCGCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGCCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -
 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGCCGCCGAGCT
 - - E E R V Stop

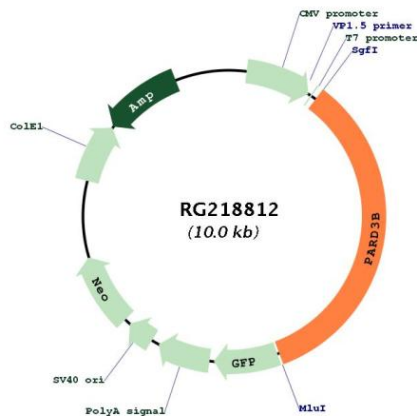
ACCN: NM_057177

ORF Size: 3408 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_057177.7</u>
RefSeq Size:	3618 bp
RefSeq ORF:	3411 bp
Locus ID:	117583
UniProt ID:	<u>Q8TEW8</u>
Cytogenetics:	2q33.3
Gene Summary:	Putative adapter protein involved in asymmetrical cell division and cell polarization processes. May play a role in the formation of epithelial tight junctions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG218812