

Product datasheet for **MG225840**

Pard3 (NM_001013581) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard3 (NM_001013581) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pard3
Synonyms:	AA960621; AI256638; Asip; D8Ertd580e; Par-3; Par3; Pard-3; Pard3a; Phip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225840 representing NM_001013581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCTTCATGTCCGCCGGAGCAGCGACCCAGCTTTAACTGGCCTTTCCACTTCTGTCTAGTGATAACA
 ACTTTTCTCAGAGGAGCCCTCCAGGAAAAACCCACCCGCTGGTCCACGACAGCTGGCTTTCTCAAGCA
 GAACACCGCTGGAAGTCCCAAAACCTGCACAGGAAGAAAGATGAAAACCTACAGAAGCCTTCCACGGGAT
 CCCAGTAGCTGGTCCAACCAAGTCCAGCGAGACAACGCCCGCTCCTCCCTGAGCGCCAGCCACCCAAATGG
 TAGACCGGTGGCTGGAGAAGCAAGAACAGGATGAGGAAGGCACAGAAGAAGACAGCAGCCGAGTGGAGCC
 GGTGGACATGCTGATACCGGATTGGAGAACATGCCCAACTTTCCCTCGATGATATGGTAAAGCTCGTA
 CAAGTCCCAACGATGGAGGGCCCTGGGAATCCATGTAGTGCCTTTCACTGCTCGAGCGCCGAGAACAT
 TGGGGTTGTTAGTGAAGCGGTTGGAGAAGGCGGTAAGGCTGAGCAAGAAAACCTTTCCATGAGAATGA
 CTGCATTGTGAGGATTAACGATGGAGATCTTCGAAACAGAAGATTTGAGCAAGCACAACATATGTTCCGC
 CAAGCTATGCGTGCAGCTGATTTGGTCCATGTGGTCCCTGCAGCAAAACAAGGAGCAATATGAACAAC
 TGTCCTCAACGCGAGAAGAACAACACTACTCCCAAGGCCGCTTCAGCCCTGACAGCCACTGTGTGGCCAAACAG
 GAGTGTGGCCAACAATGCCCTCAAGCATTGCCAGAGACCCAGACTGAGTCAAGCCACCCGAGCAGCTG
 GATGCTCACCCCGACTACCTCATAGTGCTCACGCCTCAACCAAAACCCCGCAGCCCGGCCCTGGCTC
 CACCCAGTGTGCTTAGTACCAACGTAGGCAGTGTGTACAACACGAAGAAAGTAGGCAAGAGGCTCAACAT
 CCAGCTTAAGAAAGGTACAGAAGGACTGGGATTCAGCATCACCTCCCGGACGTCACCATAGGTGGCTCA
 GCTCCCATTTATGTCAAGAATATCCTTCTCGAGGGGCTGCCATTCAGGATGGCAGACTCAAGGCAGGAG
 ACCGGCTAATAGAGGTCAATGGAGTAGATTTAGCAGGCAAAATCCAGGAGGAAGTTGTTCCCTGTTGAG
 AAGCACCAAGATGGAGGGGACTGTGAGCCTTCTGGTCTTTCGTCAGGAAGAGGCTTCCACCCAAGGGAA
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 CACCCGATGGTACCAGGGAGTTTCTGACTTTTGAAGTTCCACTGAATGACTCAGGATCTGCAGGGCTTGG
 TGTCAAGTGTCAAGGGGAACCGTTCCAAAGAGAACCACGCAGATTTGGGGATCTTCGTTAAATCCATTATC
 AATGGTGGAGCTGCATCTAAGATGGAAGGCTGAGGGTAAATGACCAGCTGATAGCTGTGAATGGAGAAT
 CTCTACTGGGCAAAGCCAACCAGGAAGCCATGGAGACTCTACGGAGGTCCATGTCCACCGAGGGCAACAA
 GCGTGGCATGATCCAGCTCATTGTGGCGAGGCGGATCAGCAGATGTAACGAGCTGCGGTCTCCTGGGAGC
 CCTGCTGCACCTGAGCTGCCATCGAGACAGAAGTGGATGACCGAGAACGCAGGATCTCACACTCCCTCT
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 CCAGCTGTCCCCACGGTGAACATGCCTCACGATGACACTGTCTGATTGAAGATGACAGGCTGCCTGTG
 CTCCCTCCTCACCTCTCTGACCAGTCTCCTCCAGCTCCCATGATGACGTTGGATTGATAATGACAGAAG
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 GAAATCTAGCTCCTTAGAAAGTCTGACAGCCGCTGTCGCCGAGGTGACGCTGAACGGGAACATTCCTTTC
 CACCGCCCTCGGCCACGAATCATCCGGGAAGGGGCTGCAACGAAAGCTTCAGAGCCGCCATTGACAAGT
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 AATGGAGACCCAGAGAAAAGGACAAGACAGAGAGGAAAAAGGACAAAGCCGAAAGGATAAGAAGAAAG
 ACCGAGAGAAGGAGAAGGATAAACTGAAAGCCAAGAAGGGGATGCTGAAAGGCTTGGGGGACATGTTTCAG
 CCTGGCCAAACTGAAGCCGGAGAAGAGA

ACCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >MG225840 representing NM_001013581
 Red=Cloning site Green=Tags(s)

MPLHVRSSDPAL TGLSTSVSDNNFSSEEPSRKNPTRWSTTAGFLKQNTAGSPKTCDRKKDENYRSLPRD
 PSSWSNQFQRDNARSSL SASHPMVDRWLEKQEEDGTEEDSSRVEPVGHADTGLNMPNFSLDDMVKLV
 QVPNDGGPLGIHVVPFSARGGRTL GLLVKRLEKGGKAEQENLFHENDCIVRINDGDLRNRFFEQAQHMFR
 QAMRARIWFHVVPAANKEQYEQLSQREKNNYSRGRFSPDShcVANRSVANNAPQALPRAPRLSQPPEQL
 DAHPRLPHSAHASTKPPAAPALAPPSVLSTNVGSYNTKKVGRKLNILQLKKGTEGLGFSITSRDVTIGGS
 APIYVKNILPRGAAIQDGRLLKAGDRLIEVNGVDLAGKSQEEVVSLLRSTKMEGTVSLLVFRQEEAFHPRE
 MNAEPSQMTPKETKAEDVDVLPDGTREFLTFEVLNDSGSAGLGVSVKGNRSKENHADLGIFVKSII
 NGGAASKDGRRLRVNDQLIAVNGESLLGKANQEAMETLRRSMSTEGNKRGMQLIVARRISRCNELRSPGS
 PAAPELPIETELDDRERRISHSLYSGIEGLDESPTRNAALSRIMGKQCQLSPTVNMPHDDTVMIEDDRLPV
 LPHLSDQSSSSHDDVGFIMTEAGTWAKATISDSADCSLSPDVPVLAFAQREGFGRQSMSEKRTKQFSD
 ASQLDFVKTRKSKSMDLGIADETKLNVTDDQVAGSPSRDVGPSLGLKKSSLESLSQTAVAETLNGNIPF
 HRPRPRIIRGRGCNESFRAAIDKSYDKPMVDDDEGEMTLEEDTESSRSRGRESVSTSSDQPSYSLERQM
 NGDPEKRDKTERKKDKAGKDKKKDREKEKDKLAKKGMKGLGDMFSLAKLKPEKR

TRTRPLE - GFP Tag - V

Restriction Sites:

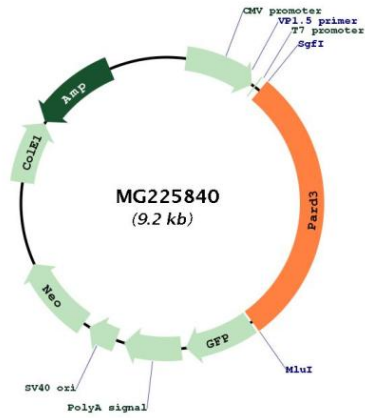
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001013581
ORF Size:	2688 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_001013581.3
RefSeq Size:	3233 bp
RefSeq ORF:	2691 bp
Locus ID:	93742
UniProt ID:	Q99NH2
Cytogenetics:	8 74.66 cM
Gene Summary:	Adapter protein involved in asymmetrical cell division and cell polarization processes (By similarity). Seems to play a central role in the formation of epithelial tight junctions (By similarity). Targets the phosphatase PTEN to cell junctions (By similarity). Association with PARD6B may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly (PubMed:11839275). The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (By similarity). Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (By similarity). Involved in Schwann cell peripheral myelination (PubMed:21949390). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225840