

Product datasheet for **MG225738**

Pard3 (NM_001013580) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pard3 (NM_001013580) 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:

>MG225738 representing NM_001013580
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTCTTCATGTCCGCCGGAGCAGCGACCCAGCTTTAACTGGCCTTTCCACTTCTGTCTAGTGATAACA
 ACTTTTCTCAGAGGAGCCCTCCAGGAAAAACCCACCCGCTGGTCCACGACAGCTGGCTTTCTCAAGCA
 GAACACCCTGGAAGTCCCAAAACCTGCACAGGAAGAAAGATGAAAACACTACAGAAGCCTTCCACGGGAT
 CCCAGTAGCTGGTCCAACAGTTCACGCGAGACAACGCCCGCTCCTCCCTGAGCGCCAGCCACCCAAATGG
 TAGACCGTGGCTGGAGAAGCAAGAACAGGATGAGGAAGGCACAGAAGAAGACAGCAGCCGAGTGGAGCC
 GGTTGGACATGCTGATACCGGATTGGAGAACATGCCCAACTTTTCCCTCGATGATATGGTAAAGCTCGTA
 CAAGTCCCAACGATGGAGGGCCCTGGGAATCCATGTAGTGCCTTTTCAGTGTCTGAGGCGGCAGAACAT
 TGGGGTTGTTAGTGAAGCGGTTGGAGAAGGCGGTAAGGCTGAGCAAGAAAACTTTTCCATGAGAATGA
 CTGCATTGTGAGGATTAACGATGGAGATCTTCGAAACAGAAGATTTGAGCAAGCACAACATATGTTCCGC
 CAAGCTATGCGTGCAGCTGATTTGGTCCATGTGGTCCCTGCAGCAAACAAGGAGCAATATGAACAAC
 TGTCCCAACGCGAGAAGAACAACACTACTCCCAAGGCCGCTTCAGCCCTGACAGCCACTGTGTGGCCAAACAG
 GAGTGTGGCCAACAATGCCCTCAAGCATTGCCAGAGACCCAGACTGAGTCAAGCCACCCGAGCAGCTG
 GATGCTCACCCCGACTACCTCATAGTGTCTCACGCTCAACCAAAACCCCGCAGCCCGGCTTGGCTC
 CACCCAGTGTGCTTAGTACCAACGTAGGAGTGTGTACAACACGAAGAAAGTAGGCAAGAGGCTCAACAT
 CCAGCTTAAGAAAGGTACAGAAGGACTGGGATTCAGCATCACCTCCCGGACGTACCATAGGTGGCTCA
 GCTCCCATTTATGTCAAGAATATCCTTCTCGAGGGGCTGCCATTCAGGATGGCAGACTCAAGGCAGGAG
 ACCGGCTAATAGAGGTCAATGGAGTAGATTTAGCAGGCAAAATCCAGGAGGAAGTTGTTTCCCTGTTGAG
 AAGCACCAAGATGGAGGGGACTGTGAGCCTTCTGGTCTTTTCGTCAGGAAGAGGCTTCCACCCAAGGGAA
 ATGAATGCTGAACCAAGCCAGATGCAGACTCCAAAAGAAACGAAAGCTGAAGATGAGGACGTTGTTCTCA
 CACCCGATGGTACCAGGGAGTTTCTGACTTTTGAAGTTCCACTGAATGACTCAGGATCTGCAGGGCTTGG
 TGTCAAGTGTCAAGGGGAACCGTTCCAAAGAGAACCACGCAGATTTGGGGATCTTCGTTAAATCCATTATC
 AATGGTGGAGCTGCATCTAAGATGGAAGGCTGAGGGTAAATGACCAGCTGATAGCTGTGAATGGAGAAT
 CTCTACTGGGCAAAGCCAACCAGGAAGCCATGGAGACTCTACGGAGGTCCATGTCCACCGAGGGCAACAA
 GCGTGGCATGATCCAGCTCATTGTGGCAGGCGGATCAGCAGATGTAACGAGCTGCGGTCTCTGGGAGC
 CCTGCTGCACCTGAGCTGCCATCGAGACAGAAGTGGATGACCGAGAACGCAGGATCTCACACTCCCTCT
 ACAGTGGGATCGAGGGGCTGGATGAGTCGCCACCAGGAACGCAGCACTGAGCAGGATAATGGGAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225738 representing NM_001013580
 Red=Cloning site Green=Tags(s)

MPLHVRSSDPALTGLSTSVSDNNSSEEPSRKNPTRWSTTAGFLKQNTAGSPKTCDRKDKENYRSLPRD
 PSSWSNQFQRDNARSSLASHPMVDRWLEKQEQDEEGTEEDSSRVEPVGHADTGLNMPNFSLDDMVKLV
 QVPNDGGPLGIHVVPFSARGGRTLGLLVKRLKGGKAEQENLFHENDCIVRINDGLRNRREFQAQHMFR
 QAMRARVIWFHVPAANKEQYEQLSQREKNNSPGRFSPDHCVANRSVANNAPQALPRAPRLSQPPEQL
 DAHPRLPHSAHASTKPPAAPALAPPSVLSTNVGSVYNTKKVGRKLNILKKGTEGLGFSITSRDVTIGGS
 APIYVKNILPRGAAIQDGRLLKAGDRLIEVNGVDLAGKSQEEVVSLLRSTKMEGTVSLLVFRQEEAFHPRE
 MNAEPSQMTPKETKAEDVDVLTDPDGTREFLTFEVPLNDSGSAGLGVSVKGNRSKENHADLGIFVKSII
 NGGAASKDGRLLRVNDQLIAVNGESLLGKANQEAMETLRRSMSTEGNKRGMQLIVARRISRCNELRSPGS
 PAPELPIETELDDRERRISHSLYSGIEGLDESPTRNAALSRIIMG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001013580

ORF Size: 1818 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_001013580.4](#)

RefSeq Size: 3629 bp

RefSeq ORF: 1821 bp

Locus ID: 93742

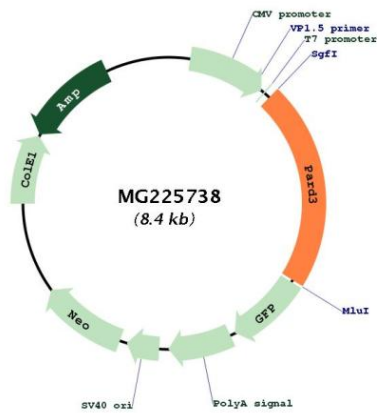
UniProt ID: [Q99NH2](#)

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 MG225738