

Product datasheet for **MG208307**

Pdzk1 (NM_021517) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdzk1 (NM_021517) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdzk1
Synonyms:	1700023D20Rik; 2610507N21Rik; 4921513F16Rik; AI267131; AI314638; AL022680; D3Ertd537e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208307 representing NM_021517
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTCCACCTTCAACCCAGAGAGTGTAAATTGTCCAACAAGAGGGGCAGAACTATGGCTTCTTCC
 TCCGAATTGAGAAGGACACTGATGGTCACTGATCCGGGTGATTGAGGAGGGGAGCCAGCAGAGAAGGC
 GGGGCTCTGGACGGTGACAGGGTGCTCAGGATCAATGGTGTCTTTGTCGACAAGGAGGACATGCGCAG
 GTGGTGGAGCTGGTCAGAAAAGAGTGGGAATTCAGTGACTCTGCTGGTCTGGATGGAGACTCCTATGAGA
 AGGCTGTGAAAAATCAGGTGGATTTGAAAGAGCTGGATCAAAGCCAGAGGGAGGCCGCTCTGAATGATAA
 GAAACCGGGCCCTGGGATGAACGGAGCGGTGGAGCCGTGTGCCACGCCACGGCTCTGCTACCTGGTGAAG
 GAGGGCAACAGCTTTGGCTTCTCTGAAAATCAAGGTAAAAGGGTGTGACTTGACTGATATAA
 TGCCTCAGGGCGTGGCCATGAAAGCTGGTGTCTGGCTGATGATCACTTGATTGAAGTGAATGGAGAAAA
 TGTAGAGAACCCAGCCATGAGGAAGTGGTTGAAAAGGTGACAAAGTCAGGAAGCCGTATCATGTTCCCTC
 CTTGTGGACAAAGAACTGCCAGGTGCCATAGTGAACAGAAGACACAATCAAGAGGGAGACAGCCAGTT
 TGAAACTGCTGCCCCACAGCCCGGGTGGTAGTGATCAAGAAGGGCAGCAATGGCTATGGCTTCTATCT
 GAGGGCGGGCCCTGAACAGAAAGGTCAAATCATTAAGGACATAGAACCCGGGAGCCAGCAGAGGGCAGCC
 GGCTTGAAGAACAATGACTTGGTAGTTGCTGTCAATGGCAAGTCTGTGGAAGCTCTTGATCATGACGGTG
 TGGTGGAAATGATTAGAAAAGGTGGAGACCAGACTACTCTGTTGGTGTGGACAAAGAGGCGAGAGCAT
 CTATAGCCTGGCTCGGTTCTCTCCACTTCTTTACTGCCAAAGTCAAGAACTGCCTAATGGTCTGTCAAG
 GAAGGCCAGCTCCGATCCCTGCTCTCTGGAGGCCACAGGCTCAGAGCCACAGAGGACCGGAGGGTCT
 ACAAGCCCAAGCTCTGCAGGCTGCTTAAAGAGGACGATAGTACGGCTTTACCTGAATGCCATTGCGGG
 TCAGCCTGGCTCCTTTGTCAAAGAGGTACAGCAGGGTGGCCCTGCTGACAAGGCTGGGCTGGAGAATGAG
 GACGTCATCATCGAAGTGAACGGGGAGAATGTGCAAGAGGAACCTACGACAGAGTGGTGGAGAGATCA
 AGAGCAGCGGGAAGCATGTCACTCTGTTGGTCTGTGAAAAGATGGCTACAGCTACTTCCAAGCTAAGAA
 AATCCCCATCGTTTCTCCATGGCCGAGCCCTGGTGGCTGGCCCTGATGAAAAAGGAGAGACGTCTGCG
 GAGTCCGAGCATGACGCCACCCAGCAAAGACCGAACTCTCAGCACAGCCTCACACTTTCGTCTAACT
 CTGAAGACACGGAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208307 representing NM_021517
 Red=Cloning site Green=Tags(s)

MASTFNPRECKLSKQEGQNYGFFLRIEKDIDGHLIRVIEEGSPAEEKAGLLDGDRLRINGVFDKKEHAQ
 VVELVRKSGNSVTLLVLDGDSYEKAVKNQVDLKELDQSQREAALNDKPKPGPMNGAVEPCAQPRLCYLK
 EGNSFGFSLKTIQGKKGYYLTDIMPQGVAMKAGVLAADDHLIEVNGENVENASHEEVVEKVTKSGSRIMFL
 LVDKETARCHSEQKTQFKRETASLKLPHQPRVVVIKKSNGYGFYLRAGPEQKQI IKDIEPGSPAEEA
 GLKNNDLVAVNGKSVEALDHDGVVEMIRKGGDQTTLLVLDKEAESIYSLARFSPLLYCSQELPNGSVK
 EGPAPIPAPLEATGSEPTEDAEGHKPKLCRLLEDSDSYGFHLNAIRGQPGSFVKEVQQGGPADKAGLENE
 DVIIEVNGENVQEEPYDRVVERIKSSGKHVTLVCGKMAYSFYQAKKIPIVSSMAEPLVAGPDEKGETSA
 ESEHDAHAPAKDRTLSTASHSSNSSEDEM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_021517
ORF Size:	1557 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_021517.1 , NP_067492.1
RefSeq Size:	2373 bp
RefSeq ORF:	1560 bp
Locus ID:	59020
UniProt ID:	Q9JIL4
Cytogenetics:	3 F2.1
Gene Summary:	A scaffold protein that connects plasma membrane proteins and regulatory components, regulating their surface expression in epithelial cells apical domains. May be involved in the coordination of a diverse range of regulatory processes for ion transport and second messenger cascades. In complex with SLC9A3R1, may cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking and the activity of the associated membrane proteins. May play a role in the cellular mechanisms associated with multidrug resistance through its interaction with ABCC2 and PDZK1IP1. May potentiate the CFTR chloride channel activity (By similarity). Required for normal cell-surface expression of SCARB1. Plays a role in maintaining normal plasma cholesterol levels via its effects on SCARB1. Plays a role in the normal localization and function of the chloride-anion exchanger SLC26A6 to the plasma membrane in the brush border of the proximal tubule of the kidney. May be involved in the regulation of proximal tubular Na(+)-dependent inorganic phosphate cotransport therefore playing an important role in tubule function.[UniProtKB/Swiss-Prot Function]