

Product datasheet for **MR223822**

Pdzk1 (NM_001146001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdzk1 (NM_001146001) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdzk1
Synonyms:	1700023D20Rik; 2610507N21Rik; 4921513F16Rik; AI267131; AI314638; AL022680; D3Erttd537e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223822 representing NM_001146001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTCCACCTTCAACCCAGAGAGTGTAAATTGTCCAACAAGAGGGGCAGAACTATGGCTTCTTTC
 TCCGAATTGAGAAGGACACTGATGGTCACTGATCCGGGTGATTGAGGAGGGGAGCCAGCAGAGAAGGC
 GGGCTCCTGGACGGTGACAGGGTGCTCAGGATCAATGGTGTCTTTGTCGACAAGGAGGAGCATGCGCAG
 GTGGTGGAGCTGGTCAGAAAAGAGTGGGAATTCAGTGACTCTGCTGGTCTGGATGGAGACTCCTATGAGA
 AGGCTGTGAAAAATCAGGTGGATTTGAAAGAGCTGGATCAAAGCCAGAGGGAGGCCGCTCTGAATGATAA
 GAAACCGGGCCCTGGGATGAACGGAGCGGTGGAGCCGTGTGCCACGCCACGGCTCTGCTACCTGGTGAAG
 GAGGGCAACAGCTTTGGCTTCTCTGAAAATCAAGGTAAAAGGGTGTACTTGACTAATATAA
 TGCCTCAGGGCGTGGCCATGAAAGCTGGTGTCTGGCTGATGATCACTTGATTGAAGTGAATGGAGAAAA
 TGTAGAGAACGCCAGCCATGAGGAAGTGGTTGAAAAGGTGACAAAGTCAGGAAGCCGTATCATGTTCCCTC
 CTTGTGGACAAAGAACTGCCAGGTGCCATAGTGAACAGAAGACACAATCAAGAGGGAGACAGCCAGTT
 TGAAACTGCTGCCCCACAGCCCGGTGGTAGTGATCAAGAAGGGCAGCAATGGCTATGGCTTCTATCT
 GAGGGCGGGCCCTGAACAGAAAGGTCAAATCATTAAAGGACATAGAACCCGGGAGCCAGCAGAGGCAGCT
 GGCTTGAAGAACAATGACTTGGTAGTTGCTGTCAATGGCAAGTCTGTGGAAGCTCTTGATCATGACGGTG
 TGGTGGAAATGATTAGAAAAGGTGGAGACCAGACTACTCTGTTGGTGTGGACAAAGAGGCAGAGAGCAT
 CTATAGCCTGGCTCGGTTCTCTCCACTTCTTTACTGCCAAAGTCAAGAACTGCCTAATGGTTCTGTCAAG
 GAAGGCCAGCTCCGATCCCTGCTCTCTGGAGGCCACAGGCTCAGAGCCACAGAGGACGCGGAGGGTC
 ACAAGCCCAAGCTCTGCAGGCTGCTTAAAGAGGACGATAGCTACGGCTTTCACCTGAATGCCATTCGGGG
 TCAGCCTGGCTCCTTTGTCAAAGAGGTACAGCAGGGTGGCCCTGCTGACAAGGCTGGGCTGGAGAATGAG
 GACGTCATCATCGAAGTGAACGGGGAGAACGTGCAAGAGGAACCTACGACAGAGTGGTGGAGAGATCA
 AGAGCAGCGGGAAGCACGTCCTCTGTTGGTCTGTGAAAAGATGGCCTACAGCTACTTCCAAGCTAAGAA
 AATCCCCATCGTTTCTCCATGGCCGAGCCCTGGTGGCTGGCCCTGATGAAAAAGGAGAGAGCTGTGCG
 GAGTCCGAGCATGACGCCACCCAGCAAAGACCGAACTCTCAGCACAGCCTCGCACTCTTCGTCTAACT
 CTGAAGACACGGAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223822 representing NM_001146001
 Red=Cloning site Green=Tags(s)

MASTFNPRECKLSKQEGQNYGFFLRIEKDTDGHLIRVIEEGSPAEEKAGLLDGDRLRINGVFDKEEHAQ
 VVELVRKSGNSVTLLVLDGDSYEKAVKNQVDLKELDQSQREAALNDKPGPMNGAVEPCAQPRLCYLVK
 EGNSFGFSLKTIQGGKGYL TNIMPQGVAMKAGVLADDHLIEVNGENVENASHEEVVEKVTKSGSRIMFL
 LVDKETARCHSEKQTQFKRETASLKLPHQPRVVVIKKSNGYGFYLRAGPEQKQI IKDIEPGSPAEEA
 GLKNNDLVAVNGKSVEALDHDGVVEMIRKGGDQTTLLVLDKEAESIYSLARFSPLLYCSQSELNPGSVK
 EGPAPIPAPLEATGSEPTEDAEGHKPKLCRLLEDDSYGFHLN AIRQPGSFVKEVQGGPADKAGLENE
 DVIIIEVNGENVQEEPYDRVVERIKSSGKHVTLVCGKMAYS YFQAKKIPIVSSMAEPLVAGPDEKGETSA
 ESEHDAHPAKDRTLSTASHSSSNSEDEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001146001

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:**
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_001146001.2](#)

RefSeq Size: 2389 bp

RefSeq ORF: 1560 bp

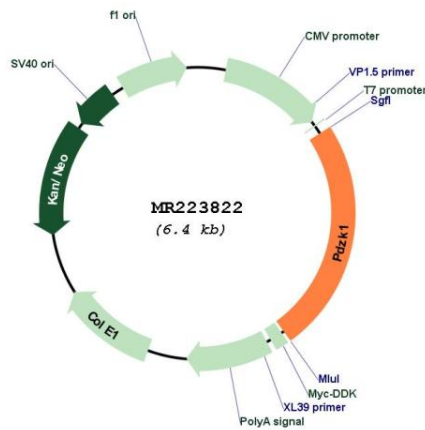
Locus ID: 59020

UniProt ID: [Q9JIL4](#)

Cytogenetics: 3 F2.1
MW: 56.9 kDa

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]

Product images:



Circular map for MR223822