

Product datasheet for **MC223747**

Pdzd8 (NM_001033222) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdzd8 (NM_001033222) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pdzd8
Synonyms:	A630041P07Rik; AV329468; AW228944; Pdzk8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223747 representing NM_001033222 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGGCTGCTGCTCCTGATCCTGGCGTCGGCCGTGCTGGGCTCGTTCCTCACGCTGCTCGCACAGTTCC
TGCTACTCTACCGCAGACAGCCCGAGCCGCGGGCGGACGAAGCGGCCCGCGCGGGCGACGGCTTCCGCTA
CCTTAAGCCGGTGCCGGGCTGCCCTCAGGGAGTACCTTTATGGCGGCGGCGCCGAGGAGCTCGTCTGCT
TGCTCCTCCGAGGCCGGGCCAGCTCGACCCCGACCCCGACAGCCCGGCCCGCCGACGCTGGAGACCT
GCTACTTCTCAACGCCACCATCTGTTCTGTTCCGGGAGCTGCGGGACACCGCTCGCCCGCCGCTG
GGTCACCAAGAAGATCAAGGTGGAGTTCGAGGAGCTGCTGCAGACCAAGACGGCCGGCCGCTGCTGGAG
GGGCTGAGTCTGCGCGACGTGTTCTGGGCGACACGGTGCCCTTCATCAAGACCATCCGGCTGGTGCGGC
CCGTGGTGGCCTCGGGCACCGGCCGAGCCCGACGACCCCGACGGGGACGCGCTGCCCGCCACCTGCCCGGA
GGAGCTGGCCTTTGAAGCGGAGGTGGAGTACAACGGCGGTTTCCACCTGGCCATCGACGTGGACCTGGTG
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GCGTGCCCTTCACCCACTGGTCTTCTCCTTCGTGGAGGACCCGCTGATTGACTTCGAGGTGCGCTCCCA
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AAGCACACCCGTGCCAGTTACAAGATCAGTTTAAGCCGTTTTTCCATACCAAGCCTTGCAAGGATTTG
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AGAATGTAGCAGGTTATTCATTTTTGGATCCTATGACAGAGAAACAAATGTTTCATTGCACACTTGAGCTG
AGCAGTGGTGGTGGGAAGAAAAACAAAGGAGTTCTATTAAGACGGTTGAATTAATAAAGGGAATTTAC
AAAGTGTGCGACTTACACTTCGTCTTGTTCAGTCAACTGATGGGTATGCTGGGCATGTCATAATCGAAAC
TGTGGCCCAAACTCACCTGCTGCGATGGCAGATCTTCAACGGGGAGATCGGCTCATTGCTATTGGAGGT
GTGAAATCACATCGACCCTGCAGGTGCTGAAGCTCATCAAGCAGGCTGGGGACCGCTGCTGGTGTACT
ACCAGAGGCCGGCTGGGCGAGCAGCAAGACAGCCTGGGCCAGTTGGAAGAAAGCTTCTGTCCAGCTC
CTGCCAGGCAGCTACGAAGAGGACGCTGCTGGGCTGTCAGCGGACACTGAAAACAGAGACCTAGATTCT



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GAATTCGAAGACTTGGCGAGTGATGTCAGAGTACAGACAGAGTTGAAAGAGGAGACACAGCCGTTGAGTC
ACAGTCCCAACGTACTCCAACAACACTTTCTATTAAACCCCTTGGCGCTATATCCCGGTTTTAAATCG
TAAATTAATTTAGGAATCCACCACCACCACAAAACTTCCATCCAAAGAAGGAAATAAACCATCAACT
CTAAAACTTCAGAGACCACAGAAGCAGCACAAGTGTCCAAACCCCAAGGACCCACTTTCAAACCACCTG
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TTCCTTCAGAAAGTTCTGCTCTACTAAAGACTCTTCAGATGACCCTCAGATGTGGGAATCCTCAGAGGT
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CATAGGTACCTGAACATCGCACTGTGGTGCAGGGATCCTTCAAGTTAGGAGGTCTCATCTGTTGGGGC
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GTTGAGACTGGAACCCCTACACCTAAGGCCATGGTCACTAGAACTGCACTACGTAATCTGAGTATGCAA
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CAGACCACCACATAGTTCCTAATGTAGAGAAAGAAAAAGAACTCCATTTGGTTGAGGAGGTTTCTACACT
CCCTAAAGAAGAGCATTTTGTGGGACAGATGAGTTTGTGAGAAAATAACATAGTTTCCAAGATACTCAG
TTCCAGAACCCAACTTGGTGTGATTACTGTAAGAAAAAGTTTGGACAAAAGCTGCTTCCAGTGTATGT
TCTGTGCTTATGTTTGTGATAAAAAATGTCAGGAAAAGTGTCTAGCTGAGACACCTCTTTGTGGAGCAAC
TGAGAGGCGAATAGACCGGACCCCTGAAAAACCTCAGGCTGGAAGGACAGGACCCACTCTTGGGCCTTCT
CCTCGTGTGAGATAGAAGCTAACAAAGTCAGTCAATAAAACAACAGGGTTGACAAGGCACATCATTAATA
CGAGCTCTCGTTTACTAAATCTGCGTCAAGTCTCTAAACTCGCCTTCTGAACCAGGAACAGATCTTGT
AGAACCTTCACCAAAACACACACCCAATACGTCAGACAATGAAGGCAGTGACACAGAGGTCTGTGGTTCA
AACAGTCTCTCCAAACGAGGAAACAGTGCAGGAATAAAGTTAATGAGAAAGGAAGGAGGGCTGGATGACA
GTGTTTTTCATTGCAGTAAAGGAAATTTGGTGTGATCTGTACAGAGGCTTGCCGACAGAAGAGAGGATCCA
GAAGCTGGAGTTTCATGTTGGATAAGCTACAGAATGAAATTGATCAGGAGCTGGAACACAACAATTCCTT
GTTAGAGAAGAAAGGAAACAAATGATACAAGGAAAAAGTCAGTTCTTTCTGCTGCTTTAGCTAAATCGG
GAGAAAGACTACAAGCTCTGACACTTCTGATGATCCACTACAGAGCGGGAATCGAAGATATTGAAACCT
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GATAGTGAGATAAGCCAGTTGATAGACTCTCAGCCATTCAGCAACATTTCCGATGACTTGTTCGGCCCAT
CTGAGTCAGTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033222
- Insert Size:** 3444 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [NM_001033222.3](#), [NP_001028394.2](#)

RefSeq Size: 7076 bp

RefSeq ORF: 3444 bp

Locus ID: 107368

UniProt ID: [B9EI80](#)

Cytogenetics: 19 D3

Gene Summary: Molecular tethering protein that connects endoplasmic reticulum and mitochondria membranes (PubMed:29097544). PDZD8-dependent endoplasmic reticulum-mitochondria membrane tethering is essential for endoplasmic reticulum-mitochondria Ca(2+) transfer (PubMed:29097544). In neurons, involved in the regulation of dendritic Ca(2+) dynamics by regulating mitochondrial Ca(2+) uptake in neurons (PubMed:29097544).[UniProtKB/Swiss-Prot Function]