OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC107070

PDZD8 (NM_173791) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDZD8 (NM_173791) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDZD8
Synonyms:	PDZK8
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_173791, the custom clone sequence may differ by one or more nucleotides

ATGGGGCTGCTGCTCATGATCCTGGCGTCGGCCGTGCTGGGTTCCTTCCTCACGCTCCTCGCCCAGTTCT
TCCTGCTGTACCGCAGACAGCCCGAGCCGCCGGCGGACGAGGCCGCCCGCGCGGGCGAGGGCTTCCGCTA
CATCAAGCCAGTGCCGGGCCTGCTCCTAAGGGAGTACCTTTATGGCGGCGGCCGGGATGAGGAGCCCTCC
GGAGCGGCCCCTGAGGGCGGCGCGACCCCCACCGCGGCCCCCGAGACCCCCGCCCCGCCGACGCGGGAGA
CTTGCTACTTCCTCAACGCCACCATCCTATTCCTGTTCCGGGAGTTGCGGGACACCGCGCTGACCCGCCG
CTGGGTCACCAAGAAGATCAAGGTGGAGTTCGAGGAGCTGCTGCAGACCAAGACGGCCGGGCGCCTGCTG
GAGGGGCTGAGCCTGCGGGACGTGTTCCTGGGCGAGACGGTGCCCTTCATCAAGACCATCCGGCTCGTGC
GGCCAGTCGTGCCCTCGGCCACCGGGGAGCCCGATGGCCCTGAAGGGGAGGCGCTGCCCGCCGCCTGCCC
CGAGGAGCTGGCCTTCGAGGCGGAGGTGGAGTACAACGGGGGCTTCCACCTGGCCATCGACGTGGACCTG
GTCTTCGGCAAGTCCGCCTACTTGTTTGTCAAGCTGTCCCGCGTGGTGGGAAGGCTGCGCTTGGTCTTTA
CGCGCGTGCCCTTCACCCACTGGTTCTTCTCCTTCGTGGAAGACCCGCTGATCGACTTCGAGGTGCGCTC
CCAGTTTGAAGGGCGGCCCATGCCCCAGCTCACCTCCATCATCGTCAACCAGCTCAAGAAGATCATCAAG
CGCAAGCACACCCTACCGAATTACAAGATCAGGTTTAAGCCGTTTTTTCCATACCAGACCTTGCAAGGAT
TTGAAGAAGATGAAGAGCATATCCATATACAACAATGGGCACTTACTGAAGGCCGTCTTAAAGTTACGTT
GTTAGAATGTAGCAGGTTACTCATTTTTGGATCCTATGACAGAGAGGCAAATGTTCATTGTACACTTGAG
TTAAGCAGTAGTGTTTGGGAAGAAAAACAGAGGAGTTCTATTAAGACGGTTGAATTAATAAAAGGAAATT
TACAAAGTGTTGGACTTACACTTCGTCTTGTCCAGTCAACTGATGGGTATGCTGGGCACGTCATCATTGA
AACTGTGGCTCCAAACTCGCCTGCTGCAATTGCAGATCTTCAGCGGGGAGATCGACTTATCGCCATTGGA
GGTGTGAAAATCACATCAACACTGCAAGTGTTGAAGCTTATCAAGCAGGCTGGTGACCGAGTCCTGGTGT
ACTATGAAAGGCCTGTTGGCCAGAGTAATCAAGGTGCAGTGCTGCAAGATAACTTTGGCCAGTTGGAAGA
AAACTTTTTGTCAAGCTCATGCCAATCGGGTTATGAAGAGGAAGCTGCCGGGTTGACAGTAGATACTGAA
AGTAGAGAGCTGGATTCTGAATTTGAAGACTTGGCAAGTGATGTCAGAGCACAAAATGAGTTCAAAGATG
AGGCACAATCATTAAGTCATAGTCCCAAACGTGTTCCAACAACACTTTCTATTAAACCCCTTGGAGCTAT

View online »

ATCACCAGTTTTAAACCGTAAATTAGCTGTAGGAAGTCACCCACTACCACCGAAAATTCAGTCCAAAGAT
GGAAATAAACCTCCACCCCTAAAAACTTCTGAGATAACAGACCCAGCACAAGTGTCAAAACCAACCCAAG
GATCTGCTTTCAAACCACCTGTGCCACCACGACCACAAGCGAAAGTTCCTTTGCCTTCCGCCGATGCTCC
AAATCAGGCAGAACCAGATGTTCTCGTTGAAAAGCCAGAGAAGGTGGTGCCACCTCCTCTTGTAGATAAA
TCTGCTGAAAAGCAAGCAAAAAATGTGGATGCCATAGACGATGCAGCTGCACCTAAGCAATTTTTAGCAA
AGCAAGAAGTGGCCAAAGATGTCACTTCAGAAACTTCCTGCCCTACTAAGGACAGTTCGGACGACCGTCA
AACATGGGAATCATCAGAAATTCTTTATCGTAATAAGCTAGGAAAATGGACAAGAACCAGAGCATCCTGT
TTGTTTGACATAGAAGCCTGTCACAGGTACTTAAACATTGCATTGTGGTGCAGGGATCCTTTCAAGTTGG
GAGGTCTCATCTGTTTGGGGCATGTTAGTTTAAAACTTGAAGATGTGGCTTTAGGATGCCTAGCTACATC
AAACACGGAATACCTTTCCAAATTGAGACTGGAAGCCCCCTCACCTAAGGCTATAGTCACTAGAACCGCA
CTACGCAATCTGAGTATGCAAAAGGGATTCAATGACAAATTTTGCTATGGTGACATTACTATTCACTTCA
AATATTTGAAAGAAGGAGAATCAGACCACCATGTAGTTACTAACGTAGAAAAAGAAAAAGAACCCCATTT
GGTTGAAGAAGTTTCTGTTCTCCCTAAAGAGGAGCAATTTGTTGGACAGATGGGTTTAACAGAAAACAAA
CACAGTTTTCAGGATACTCAGTTCCAGAACCCAACATGGTGTGACTACTGTAAGAAAAAAGTTTGGACTA
AAGCAGCTTCCCAGTGTATGTTTTGTGCTTATGTTTGCCATAAAAAATGTCAAGAAAAGTGTCTAGCTGA
GACTTCTGTTTGTGGAGCAACTGATAGGCGAATAGACAGGACACTGAAAAACCTTAGGCTGGAAGGACAG
GAAACCCTCTTAGGCCTGCCTCCTCGTGTTGATGCTGAAGCTAGCAAGTCAGTCAATAAAACAACAGGTT
TGACAAGGCATATTATCAATACTAGTTCTCGTTTATTAAATTTGCGTCAAGTCTCTAAAACTCGCCTTTC
TGAACCAGGAACCGATCTCGTAGAACCTTCACCAAAACACACACCCAACACGTCAGACAACGAAGGCAGT
GACACGGAGGTCTGTGGTCCAAACAGTCCTTCTAAACGGGGAAACAGCACAGGAATAAAGTTAGTGAGAA
AAGAGGGTGGTCTGGATGACAGTGTTTTCATTGCAGTTAAAGAAATTGGTCGTGATCTGTACAGGGGCTT
GCCTACAGAGGAAAGGATCCAGAAACTAGAGTTCATGTTGGATAAGCTACAGAATGAAATTGATCAGGAG
TTGGAACACAATAATTCCCTTGTTAGAGAAGAAAAAGAGACAACTGATACAAGGAAAAAATCACTTCTTT
CTGCTGCCTTAGCTAAATCAGGTGAAAGGCTACAAGCTCTAACACTTCTTATGATTCACTACAGAGCAGG
CATTGAAGATATAGAAACTTTAGAAAGTCTGTCTTTAGACCAGCACTCCAAAAAAATAAGCAAGTACACA
GATGATACAGAAGAAGACCTTGATAATGAAATAAGCCAACTAATAGACTCTCAGCCATTCAGCAGCATAT
CAGATGACTTATTTGGCCCATCCGAGTCTGTGTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_173791 unedited
GGATTTTGTAATACGACCTCACTATAGGGCGGCCGCGAATTCGCACGAGGCGGAGGCGGT
GGCGGGATGGGGCTGCTGCTCATGATCCTGGCGTCGGCCGTGCTGGGTTCCTTCCTCACG
CTCCTCGCCCAGTTCTTCCTGCTGTACCGCAGACAGCCCGAGCCGCCGGCGGACGAGGCC
GCCCGCGCGGGCGAGGGCTTCCGCTACATCAAGCCAGTGCCGGGCCTGCTCCTAAGGGAG
TACCTTTATGGCGGCGGCCGGGATGAGGAGCCCTCCGGAGCGGCCCCTGAGGGCGGCGCG
ACCCCCACCGCGGCCCCCGAGACCCCCGCCCCGCCGACGCGGGAGACTTGCTACTTCCTC
AACGCCACCATCCTATTCCTGTTCCGGGAGTTGCGGGACACCGCGCTGACCCGGCGCTGG
GTCACCAAGAAGATCAAGGGGGAGTTCGAGGAGCTGCTGCAACCAAGACCGGCCGGCGCC
TGCTGGAGGGCTGAGCCTGCGGACGTGTTCCTGGGCGAGACGTGCCCTTCATCAAGACAT
CCCGCTCGTGCGGNCAGTCGTGGCCTCCGGCACCGGGGAAGCCGATTGCCCTTGAAGGGA
AGCGCCTGTCCGGCGNCTTGCCCCGAGGAGCTTGCCTCTTCAGCCGAAGGTGAGTACAAC
GGGGCCTTNCACCTGCCATTGACGTTGACCTTGGTCTCCGGCAGTTCCGCTACTTGGTTG
TTCAAGCTGTCCCGCTTGGTGGGGAAGCTGCGCTTGGTCTTTACGCGCGTGCCCTTCACC
CACTGGTTCTTCTCCTTCGTGGAAGACCCGCTGATCGACTTCGAGTGCGCTCCAGTTTGA
AGGGCGGC

Restriction Sites: NotI-NotI

ACCN: NM_173791

Insert Size: 3300 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_173791.2, NP_776152.1
RefSeq Size:	3853 bp
RefSeq ORF:	3465 bp
Locus ID:	118987
UniProt ID:	Q8NEN9
Cytogenetics:	10q25.3-q26.11
Protein Families:	Druggable Genome, Transmembrane
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). Plays an indirect role in the regulation of cell morphology and cytoskeletal organization (PubMed:21834987). May inhibit herpes simplex virus 1 infection at an early stage (PubMed:21549406). [UniProtKB/Swiss-Prot Function]