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 SC122970

PDZD3 (NM_024791) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDZD3 (NM_024791) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDZD3
Synonyms:	IKEPP; NHERF4; PDZK2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_024791 edited
GATCCAGCTATGGAGAAAGCCGCAGATCTGCAGGACACAGCCTCGTTAACTCTGAAGTTT
AAGTTTAACCCAAAGCTGGGCATTGATAATCCTGTCCTCTCCCTGGCCGAAGACCACGAC
CCCTATGATCCCTGGAGCCTGGAGCGGCCTCGCTTCTGTTTACTGAGCAAAGAGGAGGGC
AAGAGTTTTGGCTTCCACCTGCAGCAGGAGCTGGGCAGGGCTGGGCATGTGGTGTGCAGG
GTGGACCCAGGCACCTCTGCCCAGCGCCAGGGTCTTCAGGAAGGAGACAGGATCCTGGCG
GTGAACAATGATGTTGTGGAACACGAAGACTATGCGGTGGTGGTACGCCGCATCCGGGCC
AGCAGCCCTCGGGTGTTGCTGACAGTATTGGCACGGCATGCACATGACGTGGCCCGAGCT
CAGCTGGGAGAAGATGCCCACCTCTGTCCCACCCTAGGCCCAGGGGTCCGGCCCCGGCTG
TGCCACATAGTGAAAGATGAGGGTGGTTTTGGCTTCAGTGTCACCCATGGCAATCAGGGT
CCTTTCTGGTTGGTGCTAAGTACTGGAGGAGCAGCTGAGCGGGCAGGGGTGCCCCCCGGG
GCCCGGCTGCTGGAAGTGAATGGGCTTTGGCAGAGTGGACAGCAGGTGACCTTGCTGGTG
GCAGGGCCAGAGGTGGAAGAACAGTGTCGCCAGCTGGGATTGCCCCTGGCTGCACCCCTG
GCAGAGGGCTGGGCACTGCCCACCAAGCCCCGCTGCCTGCACCTGGAGAAAGGGCCCCAG
GGTTTTGGGTTCCTGCTCCGGGAGGAAAAGGGCCTTGACGGTCGCCCTGGACAGTTCCTG
TGGGAGGTGGACCCGGGACTGCCAGCCAAGAAGGCTGGGATGCAGGCTGGGGACCGGCTG
GTGGCTGTGGCTGGGGAGAGCGTGGAGGGGCTGGGCCATGAGGAGACAGTGTCCAGGATC
CAGGGGCAGGGCTCCTGTGTCTCCCTCACTGTCGTCGACCCTGAGGCGGACCGCTTCTTC
AGCATGGTTCGCCTGTCCCCACTCCTCTTCTTGGAGAACACAGAGGCTCCCGCCTCGCCC
CAGGGCAGCAGCTCAGCCTCACTGGTTGAGACAGAGGACCCTTCACTTGAAGACACAAGC
GTGCCTTCTGTCCCTCTTGGCTCCCGACAGTGCTTCCTGTACCCTGGGCCTGGTGGCAGC
TATGGCTTCCGACTCAGTTGTGTGGCCAGTGGGCCTCGTCTCTTCATCTCCCAGGTGACT
CCAGGAGGCTCAGCTGCCCGGGCTGGGCTGCAAGTGGGAGACGTGATTCTGGAAGTGAAC
GGGTATCCTGTTGGGGGACAGAATGACCTGGAGAGGCTTCAGCAGCTGCCTGAGGCTGAG
CCACCCCTCTGCCTGAAGCTGGCAGCCAGGTCTCTGCGGGGCTTGGAAGCCTGGATTCCC
CCTGGGGCTGCAGAGGACTGGGCTCTGGCCTCGGATCTACTGTAGAGCACCCCTGCTTGG
TACAGACATACTCAGGGGCTACCGTGTCTTCACTCTCCAGCCTGAGGTGGTGAAGGCAGG
ATGCTCTCTCTAAGCCAGACCAGAGGGACTCAGACACCACCGATCACAGGCTGGCCCAGG
TGCTCCCTCCCTTCCTGCAGGCCCACCTGCCAGCAGAGGGTGTGGTTGGAGGCCTCAGAC
AGGTCCCTGAAGGAGTCTGAGGCTCCAGAGGATGTCATATGGGAGTTTTAGAGAGCTGTG
TCCCAAGGATGAAGGTGTGGCTGTGGGTCTGGCTAGGATTGAAGCCATCTGGACCTTTTC
TAGATATGACTCCAGGACCCTTGAGTGTAATGCAAAAATTTGGAGACCAGCTATGCCTGC
CCTCTGTGGGTGCCTTAGCATTGCGGGAGGGTGGTGCTTGGTCACCGTTGCATTTGTTAT
AGAAATGGCCATTCGCCATAAATCTGACTGCCTGTGTTTGTGTTGGTGGGGGTAAGGGGC
AGTGGTGTGAAGGGACCAAAAGGGCCTCAGGCTCAAGGGGTGGGATGCGGCTCCTGCAGG
AGAGAGGTTGAGACCTGGTCAAATTTATTTCCTATCAATCACTGAATCTCAGGGATAATG
GGTCAACCCAGAACTGAGATGTCTGTATGACAGCCACTCCTAAAAATAAACAACAACAAA
AACAAAAAAAGAAGAAAACTAAATAAAAATAAAAATAAAAATAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_024791 unedited
CCGCGNAATTCCCGGGCAGATCCAGCTATGNGAGAAAGCCGCATATCTGCAGGACACAGC
CTCGTTAACTCTGAAGTTTAAGTTTAACCCAAAGCTGGGCATTGATAATCCTGTCCTCTC
CCTGGCCGAAGACCACGACCCCTATGATCCCTGGAGCCTGGAGCGGCCTCGCTTCTGTTT
ACTGAGCAAAGAGGAGGGCAAGAGTTTTGGCTTCCACCTGCAGCAGGAGCTGGGCAGGGC
TGGGCATGTGGTGTGCAGGGTGGACCCAGGCACCTCTGCCCAGCGCCAGGGTCTTCAGGA
AGGAGACAGGATCCTGGCGGTGAACAATGATGTTGTGGAACACGAAGACTATGCGGTGGT
GGTACGCCGCATCCGGGCCAGCAGCCCTCGGGTGTTGCTGACAGTATTGGCACGGCATGC
ACATGACGTGGCCCGAGCTCAGCTGGGAGAAGATGCCCACCTCTGTCCCACCCTATGCCC
AGGGGTCCGGCCCCGGCTGTGCCACATAGTGAAAGATGAGGGTGGTTTTGGCTTCAGTGT
CACCCATGGCAATCAGGGTCCTTTCTGGTTGGTGCTAAGTACTGGAGGAGCAGCTGAGCG
GGCAGGGGTGCCCCCCGGGGCCCGGCTGCTGGAAGTGAATGGGCTTTGGCAGAGTGGACA
GCAGGTGACCTTGCTGGTGGCAGGGCCAGAGGTGGAAGAACAGTGTCGCCAGCTGGGATT
GCCCCTGGCTGCACCCCTGGCAGAGGGCTGGGCACTGCCCACCAAGCCCCGCTGCCTGCA
CCTGGAGAAAGGGCCCCAGGGTTTTGGGTTCCTGCTCCGGGAGGAAAGGGCCCTGACGGT
CGCCCTGGACAGTTCTGTGGGGAGTGGACCCGGGACTGC
```

Restriction Sites: Please inquire

ACCN: NM_024791

Insert Size: 2246 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.

RefSeq: NM_024791.1, NP_079067.1

RefSeq Size: 2547 bp

RefSeq ORF: 663 bp

Locus ID: 79849

UniProt ID: Q86UT5

Cytogenetics: 11q23.3

Protein Families: Druggable Genome

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Gene Summary: Guanylyl cyclase C (GCC, or GUCY2C; MIM 601330) produces cGMP following the binding of either endogenous ligands or heat-stable enterotoxins secreted by E. coli and other enteric bacteria. Activation of GCC initiates a signaling cascade that leads to phosphorylation of the cystic fibrosis transmembrane conductance regulator (CFTR; MIM 602421), followed by a net efflux of ions and water into the intestinal lumen. IKEPP is a regulatory protein that associates with GCC and regulates the amount of cGMP produced following receptor stimulation (Scott et al., 2002 [PubMed 11950846]).[supplied by OMIM, Mar 2008]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.

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