

Product datasheet for **RC230192**

PDZD3 (NM_001168468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDZD3 (NM_001168468) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDZD3
Synonyms:	IKEPP; NHERF4; PDZK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230192 representing NM_001168468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAAGCCGCAGATCTGCAGGACACAGCCTCGTAACTCTGAAGTTAAGTTAAACCAAAGCTGG
 GCATTGATAATCCTGTCTCTCCCTGGCCGAAGACCACGACCCCTATGATCCCTGGAGCCTGGAGCGGCC
 TCGCTTCTGTTTACTGAGCAAAGAGGAGGGCAAGAGTTTTGGCTTCCACCTGCAGCAGGAGCTGGGCAGG
 GCTGGGCATGTGGTGTGCAGGGTGGACCCAGGCACCTCTGCCAGCGCCAGGGTCTTCAGGAAGGAGACA
 GGATCCTGGCGGTGAACAATGATGTTGTGGAACACGAAGACTATGCGGTGGTGGTACGCCGATCCGGGC
 CAGCAGCCCTCGGGTGTGCTGACAGTATTGGCACGGCATGCACATGACGTGGCCCCGAGCTCAGCTGGGA
 GAAGATGCCACCTCTGTCCCACCTAGGCCAGGGTCCGGCCCCGGCTGTGCCACATAGTGAAAGATG
 AGGGTGGTTTTGGCTTCACTGTCACCCATGGCAATCAGGGTCTTCTGTTGGTGTCTAAGTACTGGAGG
 AGCAGCTGAGCGGGCAGGGGTGCCCCCCGGGGCCGGCTGCTGGAAGTGAATGGGGTCACTGTGGAGAAG
 TCACTACAACCAACTACCAGGAAGCTTTGGCAGAGTGGACAGCAGGTGACCTTGGTGGTGGCAGGGC
 CAGAGGTGGAAGAACAGTGTCCGACAGTGGGATTGCCCTGGCTGCACCCCTGGCAGAGGGCTGGGCACT
 GCCCAACAGCCCGCTGCCTGCACCTGGAGAAAGGGCCCCAGGGTTTTGGGTTCTGCTCCGGGAGGAA
 AAGGGCCTTACGGTCCGCTGGACAGTTCCTGTGGGAGGTGGACCCGGGACTGCCAGCAAGAAGGCTG
 GGATGCAGGCTGGGGACCGGCTGGTGGCTGTGGCTGGGGAGAGCGTGGAGGGGCTGGGCCATGAGGAGAC
 AGTGTCCAGGATCCAGGGCAGGGCTCCTGTGTCTCCCTCACTGTCTGCGACCCCTGAGGCGGACCGCTT
 TTCAGCATGGTTCGCTTCCCCACTCCTTCTTGGAGAACACAGAGGCTCCCGCTCGCCCCGGGCA
 GCAGCTCAGCCTCACTGGTTGAGACAGAGGACCCCTCACTTGAAGACACAAGCGTCCCTTCTGCTCCTCT
 TGGCTCCCGACAGTCTTCTGTACCCTGGGCCTGGTGGCAGCTATGGCTTCCGACTCAGTTGTGTGGCC
 AGTGGGCCTCGTCTTTCATCTCCAGGTGACTCCAGGAGGCTCAGCTGCCCGGGCTGGGCTGCAAGTGG
 GAGACGTGATTCTGGAAGTGAACGGGTATCCTGTTGGGGACAGAATGACCTGGAGAGGCTTCAAGCAGCT
 GCCTGAGGCTGAGCCACCCCTCTGCCTGAAGCTGGCAGCCAGGTCTCTGCGGGGCTTGAAGCCTGGATT
 CCCCTGGGGCTGCAGAGGACTGGGCTCTGGCCTCGGATCTACTG

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230192 representing NM_001168468
 Red=Cloning site Green=Tags(s)

MEKAADLQDTASLTLKFKFNPKLGIIDNPVLSLAEDHDPYDPSLRLPRFCLLSKEEGKSFQFHLQQLGR
 AGHVVCRVDPGTSARQQLQEGDRILAVNNDVVEHEDYAVVRRIRASSPRVLLTVLARHAHDVARAQLG
 ED AHLCP TLGPV RPR LCHIVKDEGGFGFSVTHGNQGPFWLVLSTGGAAERAGVPPGARLLEVNGVSVEK
 FTHNQLTRKLWQSQQVTLVAGPEVEEQRQLGLPLAAPLAEGWALPTKPRCLHLEKGPQGFLLREE
 KGLDGRPGQFLWEVDPGLPAKKAGMQAGDRLVAVAGESVEGLGHEETVSRIQGGQSCVSLTVVDPEADRF
 FSMVRLSPLLLENTEAPASPRGSSASLVETEDPSLEDTSVPSVPLGSRQCFLYPGPGGSYGFRLSCVA
 SGPRLFISQVTPGSSAARAGLQVGDVILEVNGYPVGGQNDLERLQQLPEAEPLCLKLAARSLRGLAWI
 PPGAAEDWALASDLL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_a03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001168468

ORF Size: 1515 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_001168468.2](#)

RefSeq ORF: 1518 bp

Locus ID: 79849

UniProt ID: [Q86UT5](#)

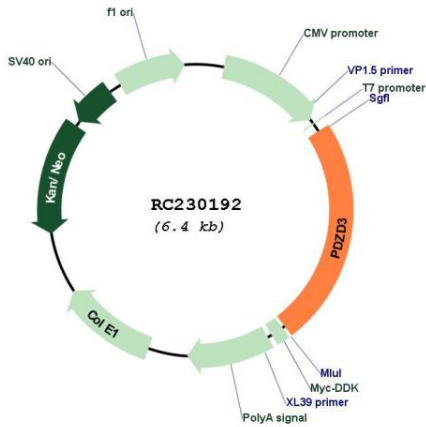
Cytogenetics: 11q23.3

Protein Families: Druggable Genome

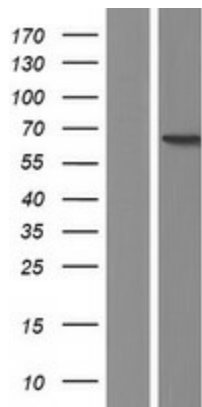
MW: 54.7 kDa

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]

Product images:



Circular map for RC230192



Western blot validation of overexpression lysate (Cat# [LY433192]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230192 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).