

## Product datasheet for **RG230192**

### **PDZD3 (NM\_001168468) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                             |
|---------------------------|---------------------------------------------|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | PDZD3 (NM_001168468) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                    |
| Symbol:                   | PDZD3                                       |
| Synonyms:                 | IKEPP; NHERF4; PDZK2                        |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                      |



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**ORF Nucleotide Sequence:**

>RG230192 representing NM\_001168468  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGGAGAAAGCCGCAGATCTGCAGGACACAGCCTCGTAACTCTGAAGTTTAAGTTTAACCCAAAGCTGG  
 GCATTGATAATCCTGTCTCTCCCTGGCCGAAGACCACGACCCCTATGATCCCTGGAGCCTGGAGCGGCC  
 TCGCTTCTGTTTACTGAGCAAAGAGGAGGGCAAGAGTTTTGGCTTCCACCTGCAGCAGGAGCTGGGCAGG  
 GCTGGGCATGTGGTGTGCAGGTGGACCCAGGCACCTCTGCCAGCGCCAGGGTCTTCAGGAAGGAGACA  
 GGATCCTGGCGGTGAACAATGATGTTGTGGAACACGAAGACTATGCGGTGGTGGTACGCCGATCCGGGC  
 CAGCAGCCCTCGGGTGTGCTGACAGTATTGGCACGGCATGCACATGACGTGGCCCGAGCTCAGCTGGGA  
 GAAGATGCCACCTCTGTCCACCCTAGGCCAGGGTCCGGCCCCGGCTGTGCCACATAGTGAAAGATG  
 AGGGTGGTTTTGGCTTCAGTGTCACCCATGGCAATCAGGGTCTTTCTGGTTGGTGCTAAGTACTGGAGG  
 AGCAGCTGAGCGGGCAGGGGTGCCCCCGGGGCCGGCTGCTGGAAGTGAATGGGGTCAGTGTGGAGAAG  
 TTAAGTCAACAACCACTCACCAGGAAGCTTTGGCAGAGTGGACAGCAGGTGACCTTGTGGTGGCAGGGC  
 CAGAGGTGGAAGAACAGTGTGCGCAGCTGGGATTGCCCTGGCTGCACCCCTGGCAGAGGGCTGGGCACT  
 GCCCACCAAGCCCCGCTGCCTGCACCTGGAGAAAGGGCCCCAGGGTTTTGGGTTCTGCTCCGGGAGGAA  
 AAGGGCCTTGACGGTCCGCTGGACAGTTCTGTGGGAGGTGGACCCGGGACTGCCAGCAAGAAGGCTG  
 GGATGCAGGCTGGGGACCGGCTGGTGGCTGTGGCTGGGGAGAGCGTGGAGGGGCTGGGCCATGAGGAGAC  
 AGTGTCCAGGATCCAGGGCAGGGCTCCTGTGTCTCCCTCACTGTCGTCGACCCTGAGGCGGACCGCTTC  
 TTCAGCATGGTTCGCCTGTCCCACTCCTCTTCTTGGAGAACACAGAGGCTCCCGCTCGCCCCGGGGCA  
 GCAGCTCAGCCTCACTGGTTGAGACAGAGGACCTTCACTTGAAGACACAAGCGTGCCTTCTGTCCCTCT  
 TGGCTCCCGACAGTGCTTCTGTACCTGGGCTGGTGGCAGCTATGGCTTCCGACTCAGTTGTGTGGCC  
 AGTGGGCTCGTCTCTCATCTCCAGGTGACTCCAGGAGGCTCAGCTGCCCGGGCTGGGCTGCAAGTGG  
 GAGACGTGATTCTGGAAGTGAACGGGTATCCTGTTGGGGACAGAATGACCTGGAGAGGCTTCAGCAGCT  
 GCCTGAGGCTGAGCCACCCCTCTGCCTGAAGCTGGCAGCCAGGTCTCTGCGGGGCTTGAAGCCTGGATT  
 CCCCCTGGGGCTGCAGAGGACTGGGCTCTGGCCTCGGATCTACTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

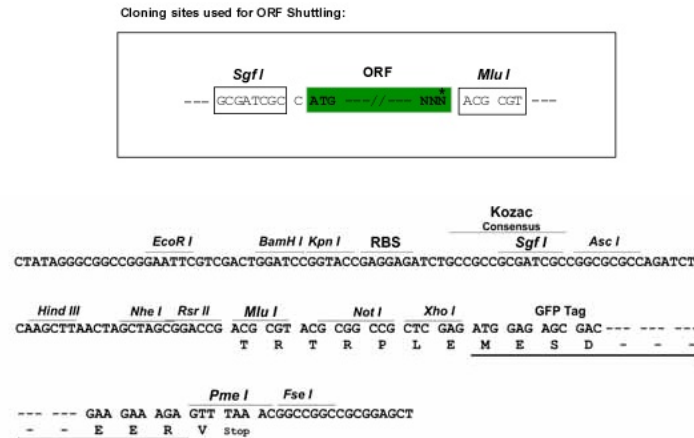
>RG230192 representing NM\_001168468  
 Red=Cloning site Green=Tags(s)

MEKAADLQDTASLTCLKFKNPKLGIDNPVLSLAEDHDPYDPWSLERPRFCLLSKEEGKSFQFHLQQLGR  
 AGHVVCVRVDPGTSARQQLQEGDRILAVNNDVVEHEDYAVVRRIRASSPRVLLTVLARHAHDVARAQLG  
 EDAHLCPITLGPVVRPRLCHIVKDEGGFGFSVTHGNQGPFWLVLSTGGAERAGVPPGARLLEVNGVSVEK  
 FTHNLTRKLWQSGQVTLTVAGPEVEEQCRQLGLPLAAPLAEGWALPTKPRCLHLEKGPQGFLLREE  
 KGLDGRPGQFLWEVDPGLPAKKAGMQAGDRLVAVAGESVEGLGHEETVSRIQGGQSCVSLTVVDPEADRF  
 FSMVRLSPLLFLENTEAPASPRGSSASLVETEDPSLEDTSVPSVPLGSRQCFLYPGPGGSYGFRLSCVA  
 SGPRLFISQVTPGGSAAARAGLQVGDVILEVNGYPVGGQNDLERLQQLPEAEPLCLKLAARSLRGLAEWI  
 PPGAAEDWALASDLL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**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 Size:** 2287 bp

**RefSeq ORF:** 1518 bp

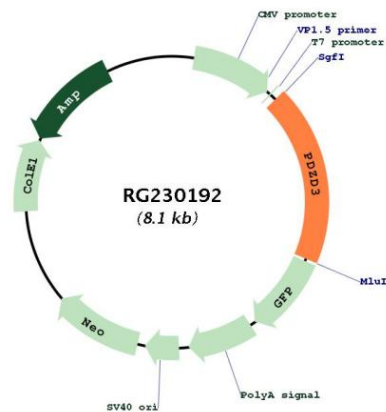
**Locus ID:** 79849

**UniProt ID:** [Q86UT5](#)

**Cytogenetics:** 11q23.3

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Families: | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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 RG230192