

## Product datasheet for **RC230121**

### **GDPD2 (NM\_001171193) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GDPD2 (NM_001171193) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GDPD2
Synonyms:	GDE3; OBDPF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230121 representing NM\_001171193  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTGGTCCCTGGCATTCTGCTGGTCATCTCTACTGGTCACATATGCATCCTTGCTATTGGTCC  
 TGGCCCTGCTCCTGCGGCTTTGTAGACAGCCCCTGCATCTGCACAGCCTCCACAAGGTGCTGCTGCTCCT  
 CATTATGCTGCTTGTGGCGGCTGGCCTTGTGGGACTGGACATCCAATGGCAGCAGGAGTGGCATAGCTTG  
 CGTGTGCACTGCAGGCCACAGCCCATTCTTCATATTGGAGCAGCCGCTGGAATTGCCCTCCTGGCCT  
 GGCCTGTGGTGATACCTTCTACCGTATCCACCGAAGAGGTCCCAAGATTCTGCTACTGCTCCTATTTTT  
 TGGAGTTGCTGGTCACTACTTGGCCCCCTATGCATCTCCTCACCTGCATCATGGAACCCAGAGAC  
 TTACCACCAAGCCTGGCTGGTGGGACACCGAGGGGCCCCATGCTGGTCCCAGAACACCCTGATGT  
 CCTTGGGAAGACAGCTGAATGCGGAGCTACTGTGTTGAGACTGATGTGATGGTCAGCTCCGATGGGT  
 CCCCTTCTCATGCATGATGAGCACCTCAGCAGGACCACGAATGTAGCCTCTGTATCCCAACCCGAATC  
 ACAGCCCACAGCAGTGACTTCTCCTGGACTGAACTGAAGAGACTCAATGCTGGATCCTGGTTCCTAGAGA  
 GCGACCCCTTCTGGGGGCCAAACCGCTGGCAGGCCCTGATCAGAAAGAGGCTGAGAGTCAGACGGTACC  
 AGCATTAGAAGAGCTATTGGAGGAAGCTGCAGCCCTCAACCTTCCATCATGTTGCGACTTGCGCCGACCC  
 CCACAGAACACACATACTATGACACTTTTGTGATCCAGACATTGGAGACTGTGCTGAATGCAAGGGTGC  
 CCCAAGCCATGGTCTTTTGGCTACCAGATGAAGATCGGGCTAATGTCCAACGACGGGCACCTGGAATGCG  
 CCAGATATATGGACGTCAGGGAGGCAACAGAACGGAGAGGCCCAAGTTTCTTAACCTCCCCTATCAAGAT  
 CTGCCACTATTGGATATCAAGGCATTGCATAAGGATAATGTCTCGGTGAACCTATTTGATGAAACAAGC  
 CCTGGCTCTTCTCTGCTTTGGTGTGCAGGGTGGATTCCGGTCACCACCAACGACTGCCAGCTGTGCA  
 GCAGATGCGTTACCCTATCTGGCTTATTACCCCTCAAACCTACCTAATCATATGGGTCAATCAATTGT  
 GTTCCACCATGCTGCTTTTGTGGACCTTCTCCTCCTCAAAGAAGATTTGTTAAGAAGAGAGGGAAAAC  
 GCTTAGAAACAGCAGTGTGCTGACAAGGATCAACAATTCATGATGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230121 representing NM\_001171193  
 Red=Cloning site Green=Tags(s)

MDWSLAFLLVISLLVTYASLLLVLALLLRLCRQPLHLHSLHKVLLLLIMLLVAAGLVGLDIQWQQEWHS  
 RVSLQATAPFLHIGAAAGIALLAWPVADTFYRIHRRGPKILLLLFFGVLVVIYLAPLCISSPCIMEPRD  
 LPPKPLVGHGAPMLAPENTLMSLRKTAECGATVFETDVMVSSDGVFPLMHDEHL SRTTNVASVFPTRI  
 TAHSSDFSWTELKRLNAGSWFLERRPFWGAKPLAGPDQKEAESQTVPALEELLEEAALNLSIMFDLRRP  
 PQNHYYDTFVIQTLETVLNARVPQAMVFWLPEDRANVQRRAPGMRQIYGRQGGNRTERPQFLNLPYQD  
 LPLLDIKALHKDNVSVNLFVFNKPWLFLLWCAGVDSVTNDCQLLQMRYPDWLITPQTYLIWVITNC  
 VSTMILLWTFLLQRRFVKRGTGLETAVLLTRINFMME

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001171193

**ORF Size:** 1380 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\\_001171193.1](#), [NP\\_001164664.1](#)

**RefSeq Size:** 2176 bp

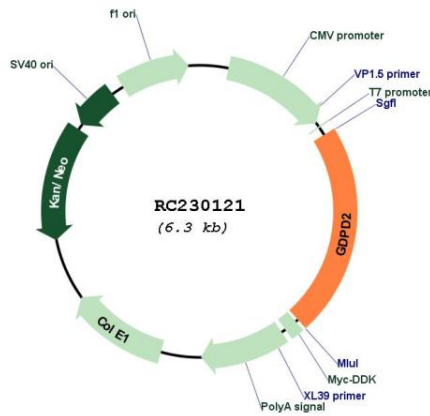
**RefSeq ORF:** 1383 bp

**Locus ID:** 54857

**UniProt ID:** [Q9HCC8](#)

**Cytogenetics:** Xq13.1  
**Protein Families:** Transmembrane  
**MW:** 52.2 kDa  
**Gene Summary:** This gene encodes a member of the glycerophosphodiester phosphodiesterase enzyme family. The encoded protein hydrolyzes glycerophosphoinositol to produce inositol 1-phosphate and glycerol. This protein may have a role in osteoblast differentiation and growth. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]

**Product images:**



Circular map for RC230121