

## Product datasheet for **RG230317**

### **GDPD2 (NM\_001171192) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GDPD2 (NM_001171192) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GDPD2
Synonyms:	GDE3; OBDPF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230317 representing NM\_001171192  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGAGTCCCCGGCTGCTGCTCCGCTGGGCCCGCTGCCTCCACTGCCTGTATAGCTGCCACTGGA  
 GGAAATGCCCCAGAGAGAGGATGCAAACCAGCAAGTGCGACTGTATCTGGTTGGCCTGCTTCCCTCAC  
 CTTCTCTTTCCCTGAGCTGGCTGTACATCGGGCTCGTCTTCTCAATGACCTGCACAACCTCAATGAA  
 TTCCTCTCCGCCGCTGGGGACACTGGATGGACTGGTCCCTGGCATTCTGCTGGTCATCTCTACTGG  
 TCACATATGCATCCTTGCTATTGGTCTGGCCCTGCTCTGCGGCTTTGTAGACAGCCCCGCATCTGCA  
 CAGCCTCCACAAGGTGCTGCTGCTCCTCATTATGCTGCTGTGGCGGCTGGCCTTGTGGGACTGGACATC  
 CAATGGCAGCAGGAGTGGCATAGCTTGCCTGTGCTACTGCAGGCCACAGCCCCATTCCTTCATATTGGAG  
 CAGCCGCTGGAATTGCCCTCTGGCCTGGCCTGTGGCTGATACCTTCTACCGTATCCACCGAAGAGGTCC  
 CAAGATTCTGCTACTGCTCCTATTTTTGGAGTTGCTGGTCTACTTGGCCCCCTATGCATCTCC  
 TCAACCCTGCATCATGGAACCCAGAGACTTACCACCCAAGCCTGGGCTGGTGGGACACCGAGGGGCCCCCA  
 TGCTGGCTCCCGAGAACCCTGATGTCCTTGGGAAGACAGCTGAATGCGGAGCTACTGTGTTGAGAC  
 TGATGTGATGGTCACTCCGATGGGGTCCCTTCTCATGCATGATGAGCACCTCAGCAGGACCAGCAAT  
 GTAGCCTCTGTATCCCAACCCGAATCACAGCCCCACAGCAGTACTTCTCTGGACTGAAGTGAAGAGAC  
 TCAATGCTGGATCCTGGTTCCTAGAGAGGCGACCTTCTGGGGGGCCAAACCGCTGGCAGGCCCTGATCA  
 GAAAGAGGCTGAGAGTCAAGCGTACCAGCATTAGAAGAGCTATTGGAGGAAGCTGCAGCCCTCAACCTT  
 TCCATCATGTTTCGACTTGCGCCGACCCACAGAACACACATACTATGACACTTTTGTGATCCAGACAT  
 TGGAGACTGTGCTGAATGCAAGGTGCCCAAGCCATGGTCTTTGGCTACCAGATGAAGATCGGGCTAA  
 TGTCCAACGACGGGCACCTGGAATGCGCCAGATATATGGACGTCAGGGAGGCAACAGAACCGAGAGGCCCC  
 CAGTTTCTTAACCTCCCCTATCAAGATCTGCCACTATTGGATATCAAAGACAGGTTCTACTACCTGCC  
 AGGCTGGTCTCAAACCTACTGGCCTCAAGCAATCTTCTGCCTCGGCTCCCAAAGTCTGGGATTACAGG  
 CCTGAGCCACTGCCCCCTCAGCCTCCCGGTTATAAGCATGAGCTATCTCACCTAGCTATGGCATTGCAT  
 AAGGATAATGTCTCGGTGAACCTATTTGTAGTGAACAAGCCCTGGCTCTTCTCTGCTTTGGTGTGACG  
 GGGTGGATTGGTCAACCAACGACTGCCAGCTGCTGCAGCAGATGCGTTACCCTATCTGGCTTATTAC  
 CCCTCAAACCTACCTAATCATATGGTCTATTACCAATTGTGTTTCCACCATGCTGCTTTTGTGGACCTTC  
 CTCTCCAAAGAAGATTTGTTAAGAAGAGAGGGAAAACCTGGCTTAGAAACAGCAGTCTGCTGACAAGGA  
 TCAACAATTTTCATGATGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230317 representing NM\_001171192  
 Red=Cloning site Green=Tags(s)

MAESPGCCSVWARCLHCLYSCHWRKCPRRMQTSKDCIWFGLLFLFLLSLSWLYIGLVLLNDLHNFNE  
 FLFRRWGHWMWDSLAFLLVISLLVTYASLLLVLALLLRLCRQPLHLHSLHKVLLLLIMLLVAAGLVGLDI  
 QWQQEWHSLRVSLQATAPFLHIGAAAGIALLAWPVADTFYRIHRRGPKILLLLLFFGVVLYIYLAPLCIS  
 SPCIMEPRDLPPKPLVGHGAPMLAPENTLMSLRKTAECGATVFETDVMVSSDGVFPFLMHDEHLSRTTN  
 VASVFPTRITAHSSDFSWTELKRLNAGSWFLERRPFWGAKPLAGPDQKEAESQTPALEELLEEEAALNL  
 SIMFDLRRPPQNHTYYDTFVIQTLETVLNARVPQAMVFWLPDEDANVQRRAPGMRQIYGRQGGNRTERP  
 QFLNLPYQDLPLLDIKDRFLLPAQAGLKLLASSNLPASASQSAGITGLSHCPPQPPGYKHELHSLAMALH  
 KDNVSVNLFVVNKPWLFSLWCAGVDSVTNDQCQLLQQMRYPIWLIITPQTYLIIWVITNCVSTMLLLWTF  
 LLQRRFVKKRGKTGLETAVLLTRINNFME

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

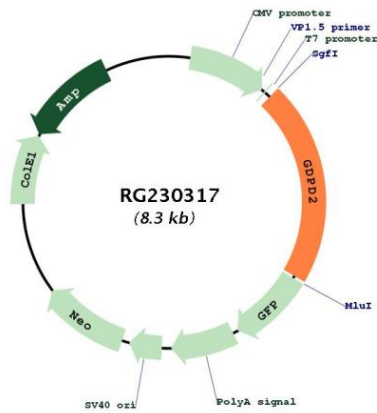
**Cloning Scheme:**


- ACCN:** NM\_001171192
- ORF Size:** 1770 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\\_001171192.1](#), [NP\\_001164663.1](#)
- RefSeq Size:** 2443 bp
- RefSeq ORF:** 1773 bp
- Locus ID:** 54857
- UniProt ID:** [Q9HCC8](#)
- Cytogenetics:** Xq13.1

**Protein Families:** Transmembrane

**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 RG230317