

## Product datasheet for **RG223431**

### **GDPD1 (NM\_182569) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | GDPD1 (NM_182569) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | GDPD1                                                                       |
| Synonyms:                 | GDE4                                                                        |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG223431 representing NM_182569<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGTCGTCCTGCGGCTTTTACCTTCTCTACGCTAGGAGGATACTTGGTGACCTCATTCTTGTTC  
TTAAATACCCGACCTTGCTGCACCAGAGAAAGAAGCAGCGATTCCTCAGTAAACACATCTCTACCGCGG  
AGGTGCTGGAGAAAATTTGGAGAATAAATGGCAGCCTTTCAGCATGCGGTTAAATCGGAAGTATACG  
CTAGAATTGGACTGCCATATCACAAAAGATGAACAAGTTGTAGTGCACATGATGAGAATCTAAAGAGAG  
CAACTGGGGTCAATGTAAACATCTCTGATCTCAAATACTGTGAGCTCCACCTTACCTTGGCAAAGTGA  
TGTCTCATTTCAAAGAGCATGCCAGTGTGAAGGAAAAGATAACCGAATTCATTACTGAAGGAAGTTTT  
GAGGCCCTTTCCTAACACTCCCATTAACATCGATATCAAAGTCAACAACAATGTGCTGATTAAGAAGTTT  
CAGAGTTGGTGAAGCGGTATAATCGAGAACCTTAACAGTGTGGGTAATGCCAATTATGAAATTGTAGA  
AAAGTGCTACAAAGAGAATTCAGATATTCCTATACTCTCAGTCTACAACGTGCTCCTGCTCATTCTTGGC  
CTTTCTTCACTGGCCTCTTGCCCTTTGTGCCATTTCGAGAACAGTTTTTTGAAATCCCAATGCCTTCTA  
TTATACTGAAGCTAAAAGAACCACACCATGTCCAGAAGTCAAAGTTTCTCATCTGGCTTTCTGATCT  
CTTACTAATGAGGAAAGCTTTGTTTGACCACCTAACTGCTCGAGGCATTCAAGTGATATTTGGGTATTA  
AATGAAGAACAAGAATACAAAAGAGCTTTGATTTGGGAGCAACTGGGGTGATGACAGACTATCCAACAA  
AGCTTAGGGATTTTTACATAACTTTTCAGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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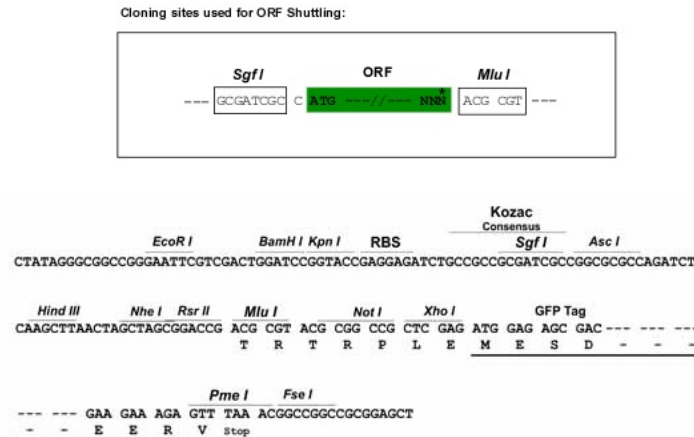
**Protein Sequence:** >RG223431 representing NM\_182569  
Red=Cloning site Green=Tags(s)

MSSTAIFYLLSTLGGYLVTSFLLKYPYLLHQRKKQRFSLKHISHRGAGENLENTMAAFQHAVKIGTDT  
LELDCHITKDEQVVVSHDENLKRATGVNVNISDLKYCELPPYLGKLDVSFQACQCEGKDNRIPLLKEVF  
EAFNTPINIDIKVNNVLIKKVSELVKRYNREHLTVWGNANYEIVEKCYKENSIPILFSLQRVLLILG  
LFFTGLLPFVPIREQFFEIPMPSIILKLEPHTMSRSQKFLIWLSDLLMRKALFDHLTARGIQVYIWL  
NEEQEYKRAFDLGATGVMTDYPTKLRDFLHNFS

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_182569

**ORF Size:** 942 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\\_182569.2](#)

**RefSeq Size:** 1822 bp

**RefSeq ORF:** 945 bp

**Locus ID:** 284161

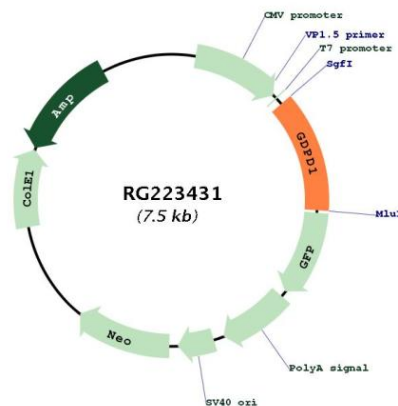
**UniProt ID:** [Q8N9F7](#)

**Cytogenetics:** 17q22

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a member of the glycerophosphodiester phosphodiesterase family of enzymes that catalyze the hydrolysis of deacylated glycerophospholipids to glycerol phosphate and alcohol. The encoded protein is localized to the cytoplasm and concentrates near the perinuclear region. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

## Product images:



Circular map for RG223431