

Product datasheet for **RG230122**

GDPD2 (NM_001171191) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDPD2 (NM_001171191) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG230122 representing NM_001171191
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTGGTCCCTGGCATTCTGCTGGTCATCTCTACTGGTCACATATGCATCCTTGCTATTGGTCC
 TGGCCCTGCTCCTGCGGCTTTGTAGACAGCCCTGCATCTGCACAGCCTCCACAAGGTGCTGCTGCTCCT
 CATTATGCTGCTTGTGGCGGCTGGCCTTGTGGGACTGGACATCCAATGGCAGCAGGAGTGGCATAGCTTG
 CGTGTGCTCACTGCAGGCCACAGCCCATTCCTTCATATTGGAGCAGCCGCTGGAATTGCCCTCCTGGCCT
 GGCCTGTGGTGATACCTTCTACCGTATCCACCGAAGAGGTCCCAAGATTCTGCTACTGCTCCTATTTTT
 TGGAGTTGCTGGTCACTACTTGGCCCCCTATGCATCTCCTCACCTGCATCATGGAACCCAGAGAC
 TTACCACCAAGCCTGGGCTGGTGGGACACCGAGGGGCCCCATGCTGGTCCCGAGAACACCCTGATGT
 CCTTGGGAAGACAGCTGAATGCGGAGCTACTGTGTTGAGACTGATGTGATGGTCAGCTCCGATGGGT
 CCCCTTCTCATGCATGATGAGCACCTCAGCAGGACCACGAATGTAGCCTCTGTATCCCAACCCGAATC
 ACAGCCACAGCAGTACTTCTCCTGGACTGAACTGAAGAGACTCAATGCTGGATCCTGGTTCCTAGAGA
 GCGACCCCTTCTGGGGGCCAAACCGCTGGCAGGCCCTGATCAGAAAGAGGCTGAGAGTCAGACGGTACC
 AGCATTAGAAGAGCTATTGGAGGAAGCTGCAGCCCTCAACCTTCCATCATGTTGCGACTTGCGCCGACCC
 CCACAGAACACACATACTATGACACTTTTGTGATCCAGACATTGGAGACTGTGCTGAATGCAAGGGTGC
 CCCAAGCCATGGTCTTTTGGCTACCAGATGAAGATCGGGCTAATGTCCAACGACGGGCACCTGGAATGCG
 CCAGATATATGGACGTCAGGGAGGCAACAGAACGGAGAGGCCCAAGTTTCTTAACCTCCCCTATCAAGAT
 CTGCCACTATTGGATATCAAGGCATTGCATAAGGATAATGTCTCGGTGAACCTATTTGTAGTGAACAAGC
 CCTGGCTCTTCTCTGCTTTGGTGTGCAGGGTGGATTCCGGTACCACCAACGACTGCCAGCTGCTGCA
 GCAGATGCGTTACCCTATCTGGCTTATTACCCCTCAAACCTACCTAATCATATGGGTATTACCAATTGT
 GTTCCACCATGCTGCTTTTGTGGACCTTCTCCTCCTCAAAGAAGATTTGTTAAGAAGAGAGGGAAAACCTG
 GCTTAGAAACAGCAGTGTGCTGACAAGGATCAACAATTCATGATGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

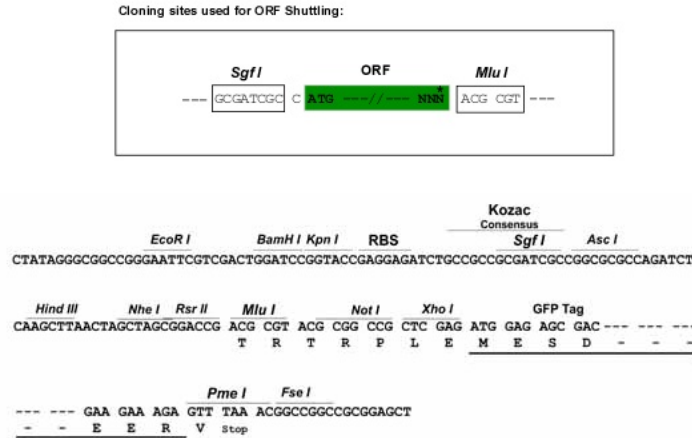
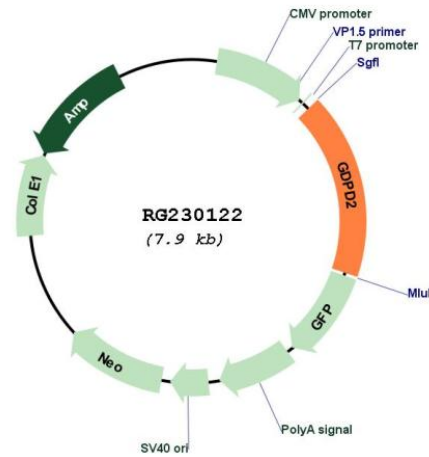
>RG230122 representing NM_001171191
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MDWSLAFLLVISLLVTYASLLLVLALLLRLCRQPLHLHSLHKVLLLLIMLLVAAGLVGLDIQWQQEWHS
 RVSLQATAPFLHIGAAAGIALLAWPVADTFYRIHRRGPKILLLLLFFGVVLYIYLAPLCISSPCIMEPRD
 LPPKPGLVGHGAPMLAPENTLMSLRKTAECGATVFETDVMVSSDGVVFLMHDEHL SRTTNVASVFPTRI
 TAHSSDFSWTELKRLNAGSWFLERRPFWGAKPLAGPDQKEAESQTVPALEELLEEEAALNLSIMFDLRRP
 PQNHYYDTFVIQTLETVLNARVPQAMVFWLPDEDNANVQRRAPGMRQIYGRQGGNRTERPQFLNLPYQD
 LPLLDIKALHKDNVSVNLFVVKPWLFSLLWCAGVDSVTNDCQLLQQMRYPWILITPQTYLIIWVITNC
 VSTMLLLWTFLLQRRFVKRGTGLETAVLLTRINNFMM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001171191

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:	<ol style="list-style-type: none">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:	<u>NM_001171191.1</u> , <u>NP_001164662.1</u>
RefSeq Size:	2072 bp
RefSeq ORF:	1383 bp
Locus ID:	54857
UniProt ID:	<u>Q9HCC8</u>
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]