

Product datasheet for **RC230317**

GDPD2 (NM_001171192) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDPD2 (NM_001171192) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC230317 representing NM_001171192
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGTCCCCGGCTGCTGCTCCGCTGGGCCCGCTGCCTCCACTGCCTGTATAGCTGCCACTGGA
 GGAAATGCCCCAGAGAGAGGATGCAAACCAAGTGCGACTGTATCTGGTTGGCTGCTTCCCTCAC
 TTCCTCCTTTCCCTGAGCTGGCTGTACATCGGGCTCGTCTTCTCAATGACCTGCACAACCTCAATGAA
 TTCCTCTCCGCCGCTGGGGACTGGATGGACTGGTCCCTGGCATTCTGCTGGTCATCTCTACTGG
 TCACATATGCATCCTTGCTATTGGTCTGGCCCTGCTCCTGCGGCTTTGTAGACAGCCCCGCATCTGCA
 CAGCCTCCACAAGGTGCTGCTCCTCATTATGCTGCTGTGGCGGCTGGCCTTGTGGGACTGGACATC
 CAATGGCAGCAGGAGTGGCATAGCTTGCCTGTGCTACTGCAGGCCACAGCCCCATTCCTTCATATTGGAG
 CAGCCGCTGGAATTGCCCTCCTGGCCTGGCCTGTGGCTGATACCTTCTACCGTATCCACCGAAGAGGTCC
 CAAGATTCTGCTACTGCTCCTATTTTTGGAGTTGCTGGTCTACTTGGCCCCCTATGCATCTCC
 TCAACCCTGCATCATGGAACCCAGAGACTTACCACCCAAGCCTGGGCTGGTGGGACACCGAGGGGCCCCCA
 TGCTGGCTCCCGAGAACCCTGATGTCCTTGGGAAGACAGCTGAATGCGGAGCTACTGTGTTGAGAC
 TGATGTGATGGTCACTCCGATGGGGTCCCTTCTCATGCATGATGAGCACCTCAGCAGGACCAGGAAT
 GTAGCCTCTGTATCCCAACCGAATCAGACGCCACAGCAGTACTTCTCCTGGACTGAACTGAAGAGAC
 TCAATGCTGGATCCTGGTTCCTAGAGAGGCGACCTTCTGGGGGGCCAAACCGCTGGCAGGCCCTGATCA
 GAAAGAGGCTGAGAGTCAGACGGTACCAGCATTAGAAGAGCTATTGGAGGAAGCTGCAGCCCTCAACCTT
 TCCATCATGTTTCGACTTGCGCCGACCCACAGAACACACATACTATGACACTTTTGATCCAGACAT
 TGGAGACTGTGCTGAATGCAAGGGTGCCTCAAGCCATGGTCTTTTGGCTACCAGATGAAGATCGGGCTAA
 TGTCCAACGACGGGCACCTGGAATGCGCCAGATATATGGACGTCAGGGAGGCAACAGAACCGAGAGGCC
 CAGTTTCTTAACCTCCCTATCAAGATCTGCCACTATTGGATATCAAAGACAGGTTCTACTACCTGCC
 AGGCTGGTCTCAAACCTACTGGCCTCAAGCAATCTTCTGCCTCGGCTCCCAAAGTCTGGGATTACAGG
 CCTGAGCCACTGCCCCCTCAGCCTCCCGGTTATAAGCATGAGCTATCTCACCTAGCTATGGCATTGCAT
 AAGGATAATGTCTCGGTGAACCTATTTGTAGTGAACAAGCCCTGGCTCTTCTCTGCTTTGGTGTGAC
 GGGTGGATTGGTCAACCAACGACTGCCAGCTGCTGCAGCAGATGCGTTACCCTATCTGGCTTATTAC
 CCCTCAAACCTACCTAATCATATGGTCTATTACCAATTGTGTTTCCACCATGCTGCTTTTGTGGACCTT
 CTCTCCAAAGAAGATTTGTTAAGAAGAGAGGGAAAACCTGGCTTAGAAACAGCAGTCTGCTGACAAGGA
 TCAACAATTCATGATGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230317 representing NM_001171192
 Red=Cloning site Green=Tags(s)

MAESPGCCSVWARCLHCLYSCHWRKCPREMRQTSKDCIWFGLLFLFLLSLSWLVIYGLVLLNDLHNFNE
 FLFRRWGHWMWDLAFLLVISLLVTYASLLLVALLLRLCRQPLHLHSLHKVLLLLIMLLVAAGLVGLDI
 QWQEWHSRLRVSLQATAPFLHIGAAAGIALLAWPVADTFYRIHRRGPKILLLLFFGVVLYIYLAPLCIS
 SPCIMEPRDLPPKPLVGHARGAPMLAPENTLMSLRKTAECGATVFETDVMVSSDGVFPLMHDEHL SRTTN
 VASVFPTRITAHSSDFSWELEKRLNAGSWFLERRPFWGAKPLAGPDQKEAESQTPALEELLEEEAALNL
 SIMFDLRRPPQNHTYYDTFVIQTLETVLNARVPQAMVFWLPDEDANVQRRAPGMRQIYGRQGGNRTERP
 QFLNLPYQDLPLLDIKDRFLLPAQAGLKLLASSNLPASASQSAGITGLSHCPPQPPGYKHELHSLAMALH
 KDNVSNLFFVVKPWLFSLLWCAGVDSVTNDCQLLQQMRYPIWLIITPQTYLIIWVITNCVSTMLLLWTF
 LLQRRFVKRGTGLETAVLLTRINNFME

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_f10.zip

Restriction Sites: SgfI-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](#)

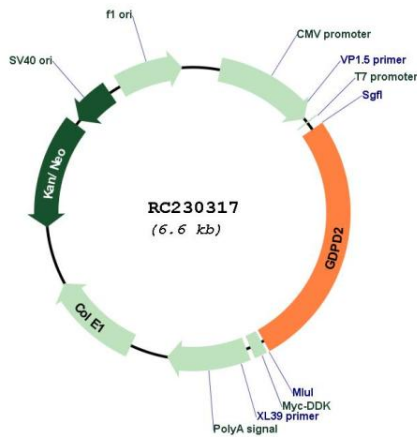
RefSeq ORF: 1773 bp

Locus ID: 54857

UniProt ID: [Q9HCC8](#)

Cytogenetics: Xq13.1
Protein Families: Transmembrane
MW: 67.4 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 RC230317