

## Product datasheet for **RC204415**

### **GDPD2 (NM\_017711) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | GDPD2 (NM_017711) 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:**

>RC204415 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGTCCCCGGCTGCTGCTCCGCTGGGCCCGCTGCCTCCACTGCCTGTATAGCTGCCACTGGA  
 GGAAATGCCCCAGAGAGAGGATGCAAACCAAGTGCAGCTGTATCTGGTTGGCCTGCTTCCCTCAC  
 CTTCTCCTTTCCCTGAGCTGGCTGTACATCGGGCTCGTCTTCTCAATGACCTGCACAACCTCAATGAA  
 TTCCTCTCCGCCGCTGGGGACACTGGATGGACTGGTCCCTGGCATTCTGCTGGTCATCTCTACTGG  
 TCACATATGCATCCTTGCTATTGGTCTGGCCCTGCTCCTGCGGCTTTGTAGACAGCCCCGCATCTGCA  
 CAGCCTCCACAAGGTGCTGCTGCTCCTCATTATGCTGCTGTGGCGGCTGGCCTTGTGGGACTGGACATC  
 CAATGGCAGCAGGAGTGGCATAGCTTGCCTGTGCTACTGCAGGCCACAGCCCCATTCCTTCATATTGGAG  
 CAGCCGCTGGAATTGCCCTCCTGGCCTGGCCTGTGGCTGATACCTTCTACCGTATCCACCGAAGAGGTCC  
 CAAGATTCGCTACTGCTCCTATTTTTGGAGTTGCTGCTGCTACTTGGCCCCCTATGCATCTCC  
 TCAACCCTGCATCATGGAACCCAGAGACTTACCACCCAAGCCTGGGCTGGTGGGACACCGAGGGGCCCCCA  
 TGCTGGCTCCCGAGAACCCTGATGTCCTTGGGAAGACAGCTGAATGCGGAGCTACTGTGTTGAGAC  
 TGATGTGATGGTCACTCCGATGGGGTCCCCTTCTCATGCATGATGAGCACCTCAGCAGGACCAGGAAT  
 GTAGCCTCTGTATCCCAACCCGAATCACAGCCCCACAGCAGTACTTCTCCTGGACTGAACTGAAGAGAC  
 TCAATGCTGGATCCTGGTTCTAGAGAGGCGACCTTCTGGGGGGCCAAACCGCTGGCAGGCCCTGATCA  
 GAAAGAGGCTGAGAGTCAGACGGTACCAGCATTAGAAGAGCTATTGGAGGAAGCTGCAGCCCTCAACCTT  
 TCCATCATGTTTCGACTTGCGCCGACCCACAGAACACACATACTATGACACTTTTGTGATCCAGACAT  
 TGGAGACTGTGCTGAATGCAAGGTGCCCAAGCCATGGTCTTTTGGCTACCAGATGAAGATCGGGCTAA  
 TGTCCAACGACGGGCACCTGGAATGCGCCAGATATATGGACGTCAGGGAGGCAACAGAACCGAGAGGCC  
 CAGTTTCTTAACCTCCCCTATCAAGATCTGCCACTATTGGATATCAAGGCATTGCATAAGGATAATGCTC  
 CGGTGAACCTATTTGTAGTGAACAAGCCCTGGCTCTTCTCTGCTTTGGTGTGCAGGGGTGGATTCCGT  
 CACCACCAACGACTGCCAGCTGCTGCAGCAGATGCGTTACCCTATCTGGCTTATTACCCCTCAAACCTAC  
 CTAATCATATGGGTATTACCAATTGTGTTTCCACCATGCTGCTTTTGTGGACCTTCTCCTCAAAGGA  
 GATTTGTTAAGAAGAGAGGGAAAACCTGGCTTAGAAACAGCAGTGTGCTGACAAGGATCAACAATTCAT  
 GATGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC204415 protein sequence  
 Red=Cloning site Green=Tags(s)

MAESPGCCSVWARCLHCLYSCHWRKCPREMRQTSKDCIWFGLLFLFLLSLSWLYIGLVLLNDLHNFNE  
 FLFRRWGHWMDWSLAFLLVISLLVTYASLLLVLALLLRLCRQPLHLHSLHKVLLLLIMLLVAAGLVGLDI  
 QWQQEWHSLRVSLQATAPFLHIGAAAGIALLAWPVADTFYRIHRRGPKILLLLFFGVVLYIYLAPLCIS  
 SPCIMEPRDLPPKPLVGHGAPMLAPENTLMSLRKTAECGATVFETDMVSSDGVVFLMHDEHLSRTTN  
 VASVFPTRITAHSSDFSWEELKRLNAGSWFLERRPFWGAKPLAGPDQKEAESQTVPALEELLEAAAALNL  
 SIMFDLRRPPQNHTYYDTFVIQTLETVLNARVPQAMVFWLPDEDANVQRRAPGMRQIYGRQGGNRTERP  
 QFLNLPYQDLPLLDIKALHKDNVSNL FVVNKPWLF SLLWCAGVDSVTTNDCQLLQQMRYPIWLI TPQTY  
 LIIWVITNCVSTMLLLWTFLLQRRFVKRGTGLETAVLLTRINNFME

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6522\\_d09.zip](https://cdn.origene.com/chromatograms/mk6522_d09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


- ACCN:** NM\_017711
- ORF Size:** 1617 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.
- Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
- RefSeq:** [NM\\_017711.2](#), [NP\\_060181.2](#)
- RefSeq Size:** 2290 bp
- RefSeq ORF:** 1620 bp
- Locus ID:** 54857

UniProt ID: [Q9HCC8](#)

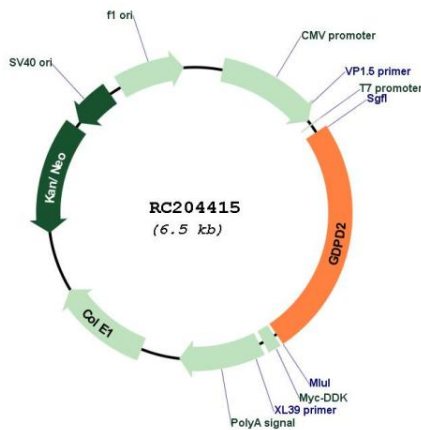
Cytogenetics: Xq13.1

Protein Families: Transmembrane

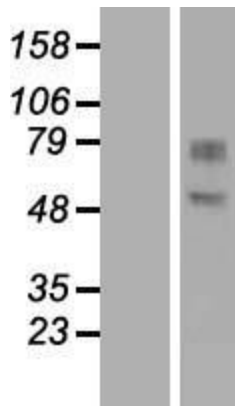
MW: 61.7 kDa

**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]

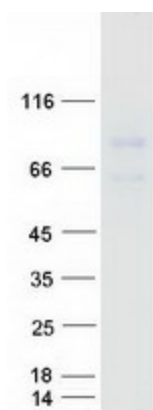
**Product images:**



Circular map for RC204415



Western blot validation of overexpression lysate (Cat# [LY413618]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204415 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GDPD2 protein (Cat# [TP304415]). The protein was produced from HEK293T cells transfected with GDPD2 cDNA clone (Cat# RC204415) using MegaTran 2.0 (Cat# [TT210002]).