

Product datasheet for **RG204415**

GDPD2 (NM_017711) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDPD2 (NM_017711) 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:

>RG204415 representing NM_017711
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGTCCCCGGCTGCTGCTCCGCTGGGCCCGCTGCCTCCACTGCCTGTATAGCTGCCACTGGA
 GGAAATGCCCCAGAGAGAGGATGCAAACCAGCAAGTGCGACTGTATCTGGTTGGCCTGCTTCCCTCAC
 CTTCTCCTTTCCCTGAGCTGGCTGTACATCGGGCTCGTCTTCTCAATGACCTGCACAACCTCAATGAA
 TTCCTCTCCGCCGCTGGGGACTGGATGGACTGGTCCCTGGCATTCTGCTGGTCATCTCTACTGG
 TCACATATGCATCCTTGCTATTGGTCTGGCCCTGCTCCTGCGGCTTTGTAGACAGCCCCGCATCTGCA
 CAGCCTCCACAAGGTGCTGCTCCTCATTATGCTGCTTGTGGCGGCTGGCCTTGTGGGACTGGACATC
 CAATGGCAGCAGGAGTGGCATAGCTTGCCTGTGCTACTGCAGGCCACAGCCCCATTCCTTCATATTGGAG
 CAGCCGCTGGAATTGCCCTCCTGGCCTGGCCTGTGGCTGATACCTTCTACCGTATCCACCGAAGAGGTCC
 CAAGATTCTGCTACTGCTCCTATTTTTGGAGTTGCTGCTGCTACTTGGCCCCCTATGCATCTCC
 TCACCCTGCATCATGGAACCCAGAGACTTACCACCCAAGCCTGGGCTGGTGGGACACCGAGGGGCCCCCA
 TGCTGGCTCCCGAGAACCCTGATGTCCTTGGGAAGACAGCTGAATGCGGAGCTACTGTGTTGAGAC
 TGATGTGATGGTCACTCCGATGGGGTCCCTTCTCATGCATGATGAGCACCTCAGCAGGACCAGCAAT
 GTAGCCTCTGTATCCCAACCCGAATCACAGCCCCACAGCAGTACTTCTCCTGGACTGAACTGAAGAGAC
 TCAATGCTGGATCCTGGTTCCTAGAGAGGCGACCTTCTGGGGGGCCAAACCGCTGGCAGGCCCTGATCA
 GAAAGAGGCTGAGAGTCAGACGGTACCAGCATTAGAAGAGCTATTGGAGGAAGCTGCAGCCCTCAACCTT
 TCCATCATGTTTCGACTTGCGCCGACCCACAGAACACACATACTATGACACTTTTGTGATCCAGACAT
 TGGAGACTGTGCTGAATGCAAGGTGCCCAAGCCATGGTCTTTTGGCTACCAGATGAAGATCGGGCTAA
 TGTCCAACGACGGGCACCTGGAATGCGCCAGATATATGGACGTACGGGAGGCAACAGAACCGAGAGGCCCC
 CAGTTTCTTAACCTCCCTATCAAGATCTGCCACTATTGGATATCAAGGCATTGCATAAGGATAATGCTC
 CGGTGAACCTATTTGTAGTGAACAAGCCCTGGCTCTTCTCTGCTTTGGTGTGCAGGGGTGGATTCCGT
 CACCACCAACGACTGCCAGCTGCTGCAGCAGATGCGTTACCCTATCTGGCTTATTACCCCTCAAACCTAC
 CTAATCATATGGGTCAATACCAATTGTGTTTCCACCATGCTGCTTTTGTGGACCTTCTCCTCAAAGGA
 GATTTGTTAAGAAGAGAGGGAAAACCTGGCTTAGAAACAGCAGTGTGCTGACAAGGATCAACAATTCAT
 GATGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204415 representing NM_017711
 Red=Cloning site Green=Tags(s)

MAESPGCCSVWARCLHCLYSCHWRKCPREMRQTSKDCDIWFGLLFLFLLSLSWLYIGLVLLNDLHNFNE
 FLFRRWGHMWDWSLAFLLVISLLVTYASLLLVLALLLRLCRQPLHLHSLHKVLLLLIMLLVAAGLVGLDI
 QWQEQEWSLRVSLQATAPFLHIGAAAGIALLAWPVADTFYRIHRRGPKLLLLLFFGVVLYIYLAPLCIS
 SPCIMEPRDLPPKPLVGHGAPMLAPENTLMSLRKTAECGATVFETDMVSSDGVFPLMHDEHLSRTTN
 VASVFPTRITAHSSDFSWTELKRLNAGSWFLERRPFWGAKPLAGPDQKEAESQVPALEELLEEEAALNL
 SIMFDLRRPPQNHTYYDTFVIQTLETVLNARVPQAMVFWLPDEDANVQRRAPGMRQIYGRQGGNRTERP
 QFLNLPYQDLPLLDIKALHKDNVSVNLFVVKPWLFSLLWCAGVDSVTTNDCQLLQQMRYPIWLIPTQTY
 LIIWVITNCVSTMLLLWTFLLQRRFVKRGTGLETAVLLTRINNFME

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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.

RefSeq: [NM_017711.2](#), [NP_060181.2](#)

RefSeq Size: 2199 bp

RefSeq ORF: 1620 bp

Locus ID: 54857

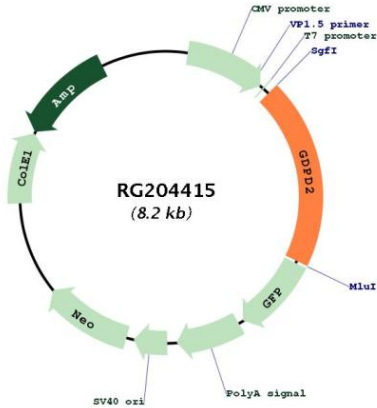
UniProt ID: [Q9HCC8](#)

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 RG204415