

Product datasheet for **RC205874**

GDPD5 (NM_030792) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDPD5 (NM_030792) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GDPD5
Synonyms:	GDE2; PP1665
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205874 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGAACCTCGGCCCAAGCCTGCTCTCATTGGCCACCGGGGCCCCATGCTGGCTCCAG
AGCACACGCTCATGTCTTCCGGAAGGCCCTCGAGCAGAAGCTGTACGGGCTCCAGGCTGACATTACCAT
CAGCCTGGACGGCGTGCCCTTCTCATGCATGACACCACCCTGCGGCGCACCAACCTGGAGGAGGAG
TTCCCGGAGCTGGCCCGCAGGCCTGCCTCCATGCTTAACTGGACCACCCTGCAGAGACTCAACGCTGGCC
AGTGGTTCCTGAAGACTGACCCCTTCTGGACAGCCAGCTCCCTGTACCCTCCGACCACAGAGAGGCCCA
GAACCAGTCCATCTGCAGCCTGGCAGAGCTCCTGGAGCTGGCCAAGGGCAATGCCACACTGCTGCTCAAC
CTGCGTGACCCGCCCCGGGAGCACCCCTACCGCAGCAGTTTTATCAACGTGACTCTGGAGCCGTGCTGC
ACTCCGGCTTCCCCAGCACCAGGTCATGTGGTGCCTAGCAGGCAGAGGCCCTGGTGCAGGAGGTGGC
TCCCGGCTTCCAACAGACATCAGGCTCCAAGGAGGAGCTCGCCAGCCTGCGGAGAGGCCACATCCAGCGG
CTGAACCTGCGCTACACTCAGGTGTCCCGCAGGAGCTCAGGGACTACCGCTCCTGGAACCTGAGTGTGA
ACCTCTACACAGTCAACGCACCGTGGCTCTTCTCCCTGCTGTGGTGTGCGGGGTCCCATCCGTACCTC
TGACAACTCCCACACCCTGTCCAGGTGCCTTCCCCCTCTGGATCATGCCCCGGACGAGTACTGTCTC
ATGTGGTCACTGCCGACCTGGTCTCCTTACCCTCATCGTGGGCATCTTCGTGCTCCAGAAGTGGCGCC
TGGGTGGCATAACGGAGCTACAACCCTGAGCAGATCATGCTGAGTGTGCGGTGCGCCGACAGCCGGGA
CGTCAGCATCATGAAGGAGAAGCTTATTTTCTCAGAGATCAGCGATGGTGTAGAGGTCTCCGATGTGCTC
TCCGTATGTTAGACAACAGTTATGACACATATGCCAACAGCACCGCCACCCTGTGGGCCCGAGGGG
GTGGCAGCCACCAAGACCCTCATAGAGCGGAGTGGGCGT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205874 protein sequence
Red=Cloning site Green=Tags(s)

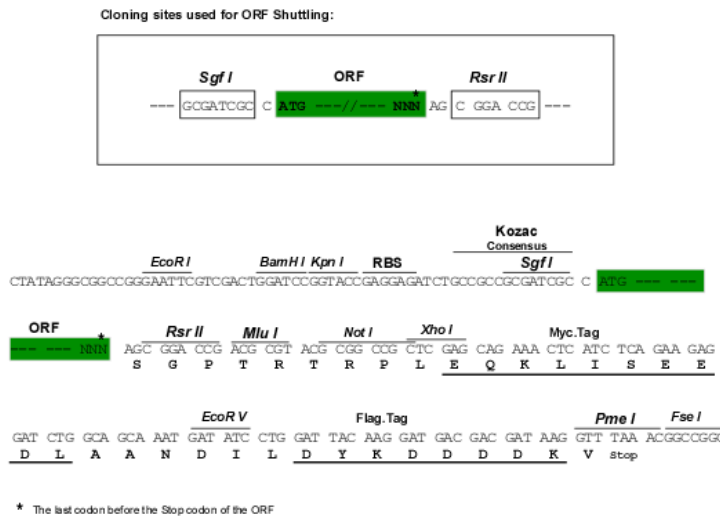
MEKKDLGPKPALIGHRGAPMLAPEHTLMSFRKALEQKLYGLQADITISLDGVPFLMHD TTLRRTTNVEEE
 FP ELARRP ASMLNWTTLQRLNAGQWFLKTD PFWTASSLSPSDHREAQNQSI CSLAELLE LAKGNATLLLN
 LRDP PREHPYRSSFINV TLEAVLHSGFPQH QVMWLP SRQRPLVRKVAPGFQQTSGSKEAVASLRGHIQR
 LNLRYTQVSRQELRDYASWNL SVNLYTVNAPWLF SLLWCAGVPSVTS DNSHTLSQVPSPLWIMPPDEYCL
 MWVTADLVSF TLI VGI FVLQKWRLGGIRSYNPEQIMLSAAVRRTRSRDVSIMKEKLI FSEISDGV EYSDVL
 SVCS DNSYDYANSTATPVGPRGGGSHTKTL IERSGR

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6618_e09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_030792

ORF Size: 1161 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_030792.2](#)

RefSeq Size: 3193 bp

RefSeq ORF: 1818 bp

Locus ID: 81544

UniProt ID: [Q8WTR4](#)

Cytogenetics: 11q13.4-q13.5

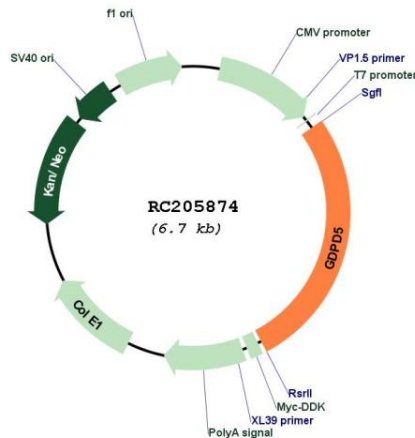
Domains: GDPD

Protein Families: Transmembrane

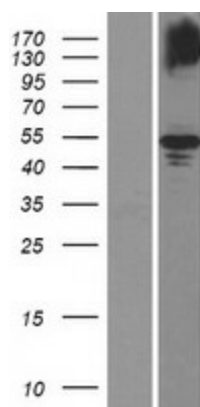
MW: 43.5 kDa

Gene Summary: Glycerophosphodiester phosphodiesterases (GDPDs; EC 3.1.4.46), such as GDPD5, are involved in glycerol metabolism (Lang et al., 2008 [PubMed 17578682]).[supplied by OMIM, Jan 2010]

Product images:



Circular map for RC205874



Western blot validation of overexpression lysate (Cat# [LY410714]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205874 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).