

Product datasheet for **RG228223**

GDPD1 (NM_001165993) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GDPD1
Synonyms:	GDE4
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG228223 representing NM_001165993
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCGTCCACTGCGGCTTTTACCTTCTCTACGCTAGGAGGATACTTGGTGACCTCATTCTTGTTC
TTAAATACCCGACCTTGCTGCACCAGAGAAAGAAGCAGCGATTCTCAGTAAACACATCTCTACCGCGG
AGGTGCTGGAGAAATTTGGAGAATACAATGGCAGCCTTTCAGCATGCGGTTAAATCGGAACCTGATATG
CTAGAATTGGACTGCCATATCAGAAAGATGAACAAGTTGTAGTGACATGATGAGAATCTAAAGAGAG
CAACTGGGGTCAATGTAACATCTCTGATCTCAAATACTGTGAGCTCCACCTTACCTTGGCAAACTGGA
TGTCTCATTTCAGAGCATGCCAGTGTGAAGGAAAAGATAACCGAATTCATTACTGAAGGAAGTTTTT
GAGGCCTTTCCTAACACTCCCATTAACATCGATATCAAAGTCAACAACAATGTGCTGATTAAGAAGGTTT
CAGAGTTGGTGAAGCGGTATAATCGAGAACCTTAACAGTGTGGGTAATGCCAATTATGAAATTGTAGA
AAAGTGCTACAAAGAGAATTCAGATATTCTATACTCTTCAGTCTACAACGTGTCTGCTATTCTTGCC
CTTTTCTTCACTGGCCTCTTGCCCTTTGTGCCATTTCGAGAACAGTTTTTTGAAATCCCAATGCCTTCTA
TTATACTGAAGCTAAAAGAACCACACCATGTCCAGAAGTCAAAAGTTTCTCATCTGGCTTTCTGATCT
CTTACTAATGAGGAAAGCTTTGTTGAACCACTGCACCGGCCAGTAAAGAAATTTTGAAGGCCATTGC
AGCTATTTGGTAGTGTCTTGTATTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG228223 representing NM_001165993

Red=Cloning site Green=Tags(s)

MSSTAIFYLLSTLGGYLVTSFLLKYPYTLHQRKKQRFLSKHSRGGAGENLENTMAAFQHAVKIGTDM
LELDCHITKDEQVVVSHDENLKRATGVNINISDLKYCELPYLGKLDVSFQACQCEGKDNRIPLKEVF
EAFNPTPINIDIKVNNVLIKKVELVKRYNREHLTVWGNANYEIVEKCYKENS DIPILFSLQRVLLILG
LFFTGLLPFVPIREQFFEIPMPSSIILKKEPHTMSRSQKFLIWLSDLLMRKALFEPLHPASKRNFEGHC
SYLVVSCYF

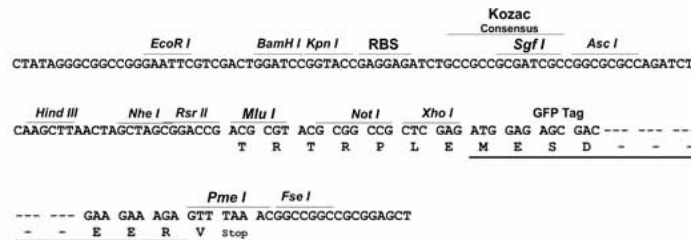
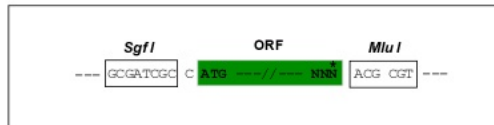
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:

NM_001165993

ORF Size:

867 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:

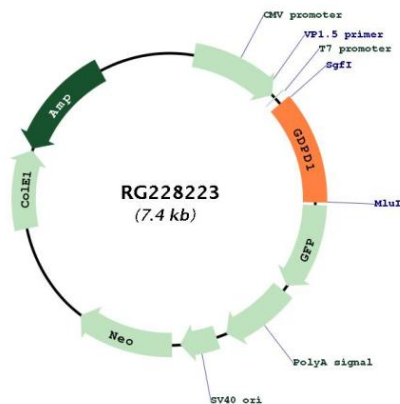
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001165993.2</u>
RefSeq Size:	1796 bp
RefSeq ORF:	870 bp
Locus ID:	284161
UniProt ID:	<u>Q8N9F7</u>
Cytogenetics:	17q22
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the glycerophosphodiester phosphodiesterase family of enzymes that catalyze the hydrolysis of deacylated glycerophospholipids to glycerol phosphate and alcohol. The encoded protein is localized to the cytoplasm and concentrates near the perinuclear region. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG228223