

## Product datasheet for **RC217578**

### **GPLD1 (NM\_001503) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPLD1 (NM_001503) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPLD1
Synonyms:	GPIPLD; GPIPLDM; PIGPLD; PIGPLD1; PLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC217578 representing NM\_001503  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGTCTTTCAGGTTGTGGCCTGGCCTGCTGATCATGTTGGTTCTCTCTGCCATAGAGGTTCCACCGT  
 GTGGCCTTTCAACACACGTAGAAATAGGACACAGAGCTCTGGAGTTTCTCAGCTTCACAATGGGGTGT  
 TAACTACAGAGAGCTGTTACTAGAACACAGGATGCGTATCAGGCTGGAATCGTGTTCCTGATTGTTTT  
 TACCCTAGCATCTGCAAAGGAGGAAAATCCATGATGTGTCTGAGAGCACTCACTGGACTCCGTTTCTTA  
 ATGCAAGCGTTCATTATATCCGAGAGAATATCCCCTCCCTGGGAGAAGGACACAGAGAAAATGGTAGC  
 TTTCTTGTGGAAATTCTCACATGGCGGCAGATGTCAGCTGGCATAGTCTGGGCCTGAACAAGGA  
 TTCCTTAGGACCATGGGAGCTATTGATTTTACGGCTCCTATTCAGAGGCTCATTCCGGCTGGTATTTG  
 GAGGAGATGTGTTGAGCCAGTTGAATTAATTTAATTACCTTGACAGCAGCTGGTATGTCCAGTCAA  
 AGATCTACTGGGAATTTATGAGAACTGTATGGTCGAAAAGTCATCACCGAAAATGTAATCGTTGATTGT  
 TCACATATCCAGTTCCTAGAAAATGATGGTGAGATGCTAGCTGTTCCAAGTTATATCCCACTTACTCTA  
 CAAAGTCCCCGTTTTTGGTGGAACAATCCAAGAGTATTTCTTGAGGACTGGATGATATGGCATTGTTG  
 GTCACATAATATTTACCATCTAACAAAGCTTCATGTTGGAGAATGGGACCAGTGACTGCAACCTGCCTGAG  
 AACCTCTGTTTCATTGCATGTGGCGCCAGCAAAACCACCCAGGGCTCAAAAATGCAGAAAAATGATT  
 TTCACAGAAAATTTGACTACATCCCTAACTGAAAGTGTGACAGGAATATAAACTATACTGAAAGAGGAGT  
 GTTCTTTAGTGTAATTCCTGGACCCCGGATTCCATGTCCTTTATCTACAAGGCTTTGGAAAAGAACATA  
 AGGACAATGTTTCATAGGTGGCTCTCAGTTGTACAAAAGCACGTCTCCAGCCCTTAGCATCTTACTTCT  
 TGTCATTTCTTATGCGAGGCTTGCTGGGCAATGACCTCAGCTGACCTCAACCAGGATGGGCACCGGTGA  
 CCTCGTGGTGGGCGCACCAAGGCTACAGCCGCCCGGCCACATCCACATCGGGCGCGTGTACCTCATCTAC  
 GGCAATGACCTGGGCCTGCCACCTGTTGACCTGGACCTGGACAAGGAGGCCACAGGATCCTTGAAGGCT  
 TCCAGCCCTCAGGTCGGTTGGCTCGGCCCTGGCTGTGTTGGACTTTAACGTGGACGGCGTGCCTGACCT  
 GGCCGTGGGAGCTCCCTCGGTGGGCTCCGAGCAGCTCACCTACAAAGGTGCCGTGTATGTCTACTTTGGT  
 TCCAAACAAGGAGGAATGTCTTCTCCCTAACATCACCATTTCTTGCCAGGACACTACTGTAACCTGG  
 GCTGGACTCTCTGGCTGCAGATGTGAATGGAGACAGTGAACCCGATCTGGTCATCGGCTCCCCTTTTGC  
 ACCAGGTGGAGGGAAGCAGAAGGGAATTTGGCTGCGTTTTATTCTGGCCCCAGCCTGAGCGACAAAGAA  
 AACTGAAAGTGGAGGCAGCAACTGGACGGTGGAGGGCAGGAAGACTTCTCCTGGTTTGGATATCCC  
 TTCACGGTGTCACTGTGGACAACAGAACCCTTGCTGTTGGTTGGGAGCCCGACCTGGAAGAATGCCAGCAG  
 GCTGGGCCATTTGTTACACATCCGAGATGAGAAAAAGAGCCTTGGGAGGGTGTATGGCTACTTCCCACCA  
 AACGGCCAAAGCTGGTTTACATTTCTGGAGACAAGGCAATGGGGAAACTGGGTACTTCCCTTCCAGTG  
 GCCACGTACTGATGAATGGGACTCTGAAACAAGTGTGCTGGTTGGAGCCCTACGTACGATGACGTGTC  
 TAAGGTGGCATTCTGACCGTGACCCTACACCAAGGCGGAGCCACTCGCATGTACGCACTCATATCTGAC  
 GCGCAGCTCTGCTGCTCAGCACCTCAGCGGAGACCGCCGCTTCTCCGATTTGGTGGCGTTCTGCACT  
 TGAGTGACCTGGATGATGATGGCTTAGATGAAATCATCATGGCAGCCCCCTGAGGATAGCAGATGTAAC  
 CTCTGGACTGATTGGGGAGAAGACGGCCGAGTATATGTATATAATGGCAAAGAGACCACCTTGGTGAC  
 ATGACTGGCAAAATGCAAATCATGGATAAATCCATGTCCAGAAGAAAAGGCCCAATATGTATTGATTCTC  
 CTGAAGCCAGCTCAAGGTTTGGGAGCTCCCTCATCACCGTGAGGTCCAAGGCAAAGAACCAAGTCGTCAT  
 TGCTGCTGGAAGGAGTTCTTTGGGAGCCGACTCTCCGGGCACTTACGTCTATAGCCTTGGCTCAGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217578 representing NM\_001503  
Red=Cloning site Green=Tags(s)

MSAFRLWPGLLIMLGSLCHRGSPCGLSTHVEIGHRALEFLQLHNGRVNYRELLLEHQDAYQAGIVFPDCF  
YPSICKGGKFHDVSESTHWTPFLNASVHYIRENYPLPWEKDEKLVAFLEFGITSHMAADVSWHSLGLEQG  
FLRTMGAIIDFHGSYSEAHSAAGDFGGDVL SQFEFNFNYLARRWYVPVKDLLGIYEKLYGRKIVITENVIVDC  
SHIQFLEMYGEMLAVSKLYPTYSTKSPFLVEQFQEYFLGGLDDMAFWSTNIYHLTSFMLENGTSDCNLPE  
NPLFIACGGQQNHTQGSKMQKNDFHRNLTTSLTESVDRNINYTELVVFFSVNSWTPDSMSFIYKALERNI  
RTMFIGGSQLSQKHVSSPLASYFLSFPYARLGWAMTSADLNQDGHGDLVVGAPGYSRPGHIHIGRVYLIY  
GNDLGLPPVDL DLKEAHRILEGFQPSGRFGSALAVLDFNVDGVPDLAVGAPSVGSEQLTYKGAVVYVYFG  
SKQGGMSSSPNITISQDIYCNLWTLAADVNGDSEPDLVIGSPFAPGGGKQKGI VAAFYSGPSLSDKE  
KLNVEAANWTVRGEEDFSWFGYSLHGVTVDNRTLLL VGSPTWKNASRLGHLLHIRDEKKS LGRVYGYFPP  
NGQSWFTISGDKAMGKLGTSLSGHVLMNGTLKQVLLVGAPTYDDVSKVAFLTVTLHQGGATRM YALISD  
AQPLLLSTFSGDRRF SRFGGVLHLSDLDDGLDEI IMAAPLRIADVTSGLIGGEDGRVYVYNGKETT LGD  
MTGKCKSWITPCPEEKAQYVVISPEASSRF GSSLITVRSKAKNQV V I AAGRSSLGARLSGALHVYSLGSD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6790\\_g01.zip](https://cdn.origene.com/chromatograms/mk6790_g01.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001503

**ORF Size:** 2520 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\\_001503.4](#)

**RefSeq Size:** 3489 bp

**RefSeq ORF:** 2523 bp

**Locus ID:** 2822

**UniProt ID:** [P80108](#)

**Cytogenetics:** 6p22.3

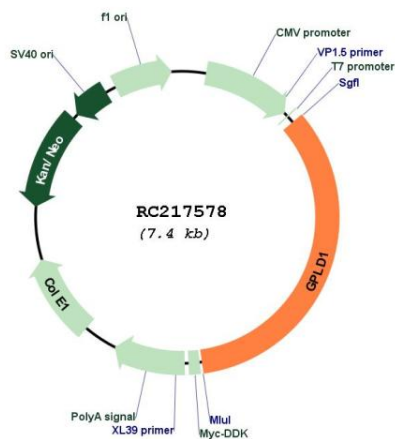
**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Glycosylphosphatidylinositol(GPI)-anchor biosynthesis

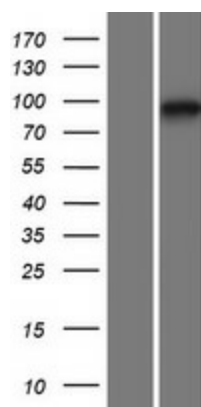
**MW:** 92.35 kDa

**Gene Summary:** Many proteins are tethered to the extracellular face of eukaryotic plasma membranes by a glycosylphosphatidylinositol (GPI) anchor. The GPI-anchor is a glycolipid found on many blood cells. The protein encoded by this gene is a GPI degrading enzyme. Glycosylphosphatidylinositol specific phospholipase D1 hydrolyzes the inositol phosphate linkage in proteins anchored by phosphatidylinositol glycans, thereby releasing the attached protein from the plasma membrane. [provided by RefSeq, Jul 2008]

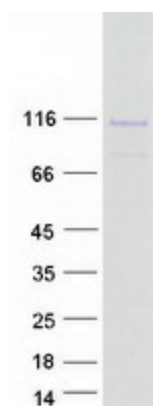
### Product images:



Circular map for RC217578



Western blot validation of overexpression lysate (Cat# [LY419906]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217578 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPLD1 protein (Cat# [TP317578]). The protein was produced from HEK293T cells transfected with GPLD1 cDNA clone (Cat# RC217578) using MegaTran 2.0 (Cat# [TT210002]).