

## Product datasheet for **RG204967**

### **PLD4 (NM\_138790) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | PLD4 (NM_138790) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | PLD4                                    |
| Synonyms:                 | C14orf175                               |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**ORF Nucleotide Sequence:**

>RG204967 representing NM\_138790  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGCTGAAGCCTCTTTGAAAGCAGCAGTGGCCCCACATGGCCATGCTCCATGCCGCCCGCCGCCCGT  
 GGGACAGAGAGGCTGGCAGCTTGCAGGTCTGGGAGCGCTGGCTGTGCTGTGGCTGGGCTCCGTGGCTCT  
 TATCTGCCTCCTGTGGCAAGTGCCCGTCTCCACCTGGGGCCAGGTGCAGCCCAAGGAGCTGCCCAGG  
 TCCTGGGAGCATGGCTCCAGCCAGCTTGGGAGCCCTGGAAGCAGAGGCCAGGCAGCAGAGGGACTCCT  
 GCCAGCTTGTCTTGTGAAAGCATCCCCAGGACCTGCCATCTGCAGCCGGCAGCCCTCTGCCAGCC  
 TCTGGGCCAGGCTGGCTGCAGCTGTGGACACTGCCAGGAGAGCGTCCACGTGGCTTCATACTACTGG  
 TCCCTCACAGGGCTGACATCGGGGTCAACGACTCGTCTCCAGCTGGGAGAGGCTCTTCTGCAGAAGC  
 TGCAGCAGCTGTGGGCAGGAACATTTCCCTGGCTGTGGCCACCAGCAGCCGACACTGGCCAGGACATC  
 CACCGACCTGCAGTTCTGGCTGCCGAGGTGCCCATGTACGACAGGTGCCCATGGGGCGGCTCACCAGG  
 GGTGTTTTGCACTCCAAATTCGGGTGTGGATGGACGGCACATATACATGGGCAGTGCCAACATGGACT  
 GGCGGTCTCTGACGCAGGTGAAGGAGCTTGGCGTGTCTATATAACTGCAGCCACCTGGCCCAAGACCT  
 GGAGAAGACCTTCCAGACCTACTGGGTACTGGGGTGCCCAAGGCTGTCTCCCCAAAACCTGGCCTCAG  
 AACTTCTCATCTCACTTCAACCGTTTCCAGCCCTTCCACGGCCTCTTGTAGGGTGCCCACTGCCT  
 ACTTCTCAGCGTCGCCACCAGCACTCTGTCCCCAGGGCCGACCCGGGACCTGGAGGCGTGTGGCGGT  
 GATGGGGAGCGCCAGGAGTTTCTATATGCCTCCGTGATGGAGTATTTCCCCACCACGCGCTTACGCCAC  
 CCCCCGAGTACTGGCCGGTGTGGACAACGCGCTGCGGGCGGCAGCCTTCGGCAAGGGCGTGCAGCGTGC  
 GCCTGCTGGTGGCTGCGGACTCAACACGACCCACCATGTTCCCTACCTGCGGTCCCTGCAGGCGCT  
 CAGCAACCCCGCGGCCAACGTCTCTGTGGACGTGAAAGTCTTCATCGTGGCGGTGGGAACCATTTCAAC  
 ATCCCATTCAGCAGGTTGAACACAGCAAGTTCATGGTCACGGAGAAGGCAGCCTACATAGGCACCTCCA  
 ACTGGTCGGAGGATTACTTCAGCAGCACGGCGGGGTGGGCTTGGTGGTACCCAGAGCCCTGGCGCGCA  
 GCGCGGGGGGCCAGGTGCAGGAGCAGCTGCGGCAGCTCTTTGAGCGGGACTGGAGTTCGCGCTACGCC  
 GTCGGCTGGACGGACAGGCTCCGGGCCAGGACTGCGTTTGGCAGGGC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204967 representing NM\_138790  
 Red=Cloning site Green=Tags(s)

MLKPLWKA AVPTWPCSMPPRRPWDREAGTLQVLGALAVLWLGSAVALICLLWQVPRPPTWGQVQPKDVPR  
 SWEHGSSPAWEPLAEARQQRDSCQLVLVESIPQDLPSAAGSPSAQPLGQAWLQLLDTAQESVHVASYW  
 SLTGPDIGVNDSSQLGEALLQKLQQLGRNISLAVATSSPTLARTSTDLQVLAARGAHVRQVPMGRLTR  
 GVLHSKFWVVDGRHIYMGSANMDWRSLTQVKELGAVIYNCSHLAQDLEKTFQTYWVLGVPKAVLPKTPWQ  
 NFSSHFNRFQPFHGLFDGVPTTAYFSASPPALCPQGRTRDLEALLAVMGSAQEF IYASVMEYFPTTRFSH  
 PPRYWPVLDNALRAAAF GKGVRRLLVGCLNTDPTMFPYLRSLQALSNPAANVSVDVKFIVPVGNHSN  
 IPFSRVNHSKFMVTEKAAYIGTSNWSYDFSSSTAGVGLVVTQSPGAQPAGATVQEQLRQLFERDWSSRYA  
 VGLDGQAPGQDCVWQG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

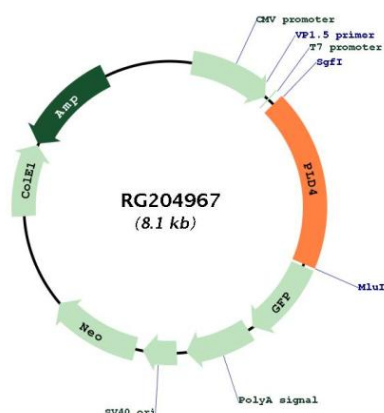
SgfI-MluI

**Cloning Scheme:**


|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCN:                  | NM_138790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ORF Size:              | 1518 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. <a href="#">More info</a>                                                                      |
| 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: | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| Note:                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| RefSeq:                | <a href="#">NM_138790.5</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RefSeq Size:           | 1964 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RefSeq ORF:            | 1521 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Locus ID:              | 122618                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                   |                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt ID:       | <a href="#">Q96BZ4</a>                                                                                                                                                                                                                                                                                                         |
| Cytogenetics:     | 14q32.33                                                                                                                                                                                                                                                                                                                       |
| Domains:          | PLDc                                                                                                                                                                                                                                                                                                                           |
| Protein Families: | Transmembrane                                                                                                                                                                                                                                                                                                                  |
| Gene Summary:     | 5'→3' DNA exonuclease which digests single-stranded DNA (ssDNA). Regulates inflammatory cytokine responses via the degradation of nucleic acids, by reducing the concentration of ssDNA able to stimulate TLR9, a nucleotide-sensing receptor. Involved in phagocytosis of activated microglia.[UniProtKB/Swiss-Prot Function] |

## Product images:



Circular map for RG204967