

## Product datasheet for **RG205703**

### LYPD1 (NM\_144586) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LYPD1 (NM\_144586) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** LYPD1  
**Synonyms:** LYPDC1; PHTS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205703 representing NM\_144586  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGGGTCTAGGCATCGCGGCAACTTTTTGCGGATTGTTCTTGCTTCCAGGCTTTGCGCTGCAAATCC  
 AGTGCTACCAAGTGAAGAATTCAGCTGAACAACGACTGCTCCTCCCCGAGTTCATTGTGAATTGCAC  
 GGTGAACGTTCAAGACATGTGTCAGAAAGAAGTATGGAGCAAAGTGCCGGGATCATGTACCGCAAGTCC  
 TGTGCATCATCAGCGGCTGTCTCATCGCCTCTGCCGGTACCAGTCTTCTGCTCCCAGGAACTGA  
 ACTCAGTTTGCATCAGCTGCTGCAACACCCTCTTTGTAACGGGCAAGGCCAAGAAAAGGGGAAGTTC  
 TGCTCGGCCCTCAGGCCAGGGCTCCGCACCACCATCCTGTTCTCAAATTAGCCCTCTTCTCGGCACAC  
 TGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG205703 representing NM\_144586  
 Red=Cloning site Green=Tags(s)

MWVLGIAATFCGLFLLPGFALQIQCYQCEEFQLNNDCSSPEFIVNCTVNVQDMCQKEVMEQSAGIMYRKS  
 CASSAACLIASAGYQSFCSPGKLNVCISCCNTPLCNGPRPKRGSSASALRPGLRRTTILFLKLALFSAH  
 C

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



[View online »](#)

Cloning Scheme:



ACCN: NM\_144586

ORF Size: 423 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\\_144586.7](#)

RefSeq Size: 2683 bp

RefSeq ORF: 426 bp

**Locus ID:** 116372  
**UniProt ID:** [Q8N2G4](#)  
**Cytogenetics:** 2q21.2  
**Protein Families:** Druggable Genome, Transmembrane  
**Gene Summary:** Believed to act as a modulator of nicotinic acetylcholine receptors (nAChRs) activity. In vitro increases receptor desensitization and decreases affinity for ACh of alpha-4:beta-2-containing nAChRs. May play a role in the intracellular trafficking of alpha-4:beta-2 and alpha-7-containing nAChRs and may inhibit their expression at the cell surface. May be involved in the control of anxiety.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG205703