

## Product datasheet for **MR200904**

### Lypd1 (NM\_145100) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lypd1 (NM\_145100) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Lypd1  
**Synonyms:** 2700050C12Rik; AI853408; C530008O16Rik; Lynx2; Lypdc1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200904 representing NM\_145100  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGGTTCTCGGCATCGCAGCAACTTTTTGCGGATTGTTCTGGCTTCCAGGGCTGGCGCTGCAAATTC  
AGTGCTACCAGTGTGAAGAATTCAGCTGAACAACGATTGCTCATCCCCTGAGTTCATCGTAAATTCAC  
CGTGAACGTTCAAGACATGTGTGAGAAAGAGTATGGAGCAAAGTGTGGGATCATGTACCGAAGTCG  
TGTGCATCGTCAGCAGCCTGTCTATTGCTTCAGCTGGGTACCAGTCCTTCTGTTCCCCTGGAAACTGA  
ACTCCGTGTGCATCAGCTGCTGCAACACCCCTCTTTGCAATGGGCCGAGGCCCAAGAAGAGAGGCAGCTC  
TGCTCGGCCATCAGGCCAGGGCTTCTACCACCTCCTGTTCTTCCACTTAGCCCTCTGCTTGGCACAC  
TGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200904 representing NM\_145100  
 Red=Cloning site Green=Tags(s)  
 MWVLGIAATFCGLFWLPGLALQIQCYQCEEFQLNDCSSPEFIVNCTVNVQDMCQKEVMEQSAGIMYRKS  
 CASSAACLIASAGYQSFCSPGKLNVCISCCNTPLCNGPRPKRGSSASAIRPGLLTLLFFHLALCLAH  
 C

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9026\\_a01.zip](https://cdn.origene.com/chromatograms/mm9026_a01.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_145100

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.

RefSeq: [NM\\_145100.4](#), [NP\\_659568.2](#)

RefSeq Size: 2047 bp

RefSeq ORF: 426 bp

Locus ID: 72585

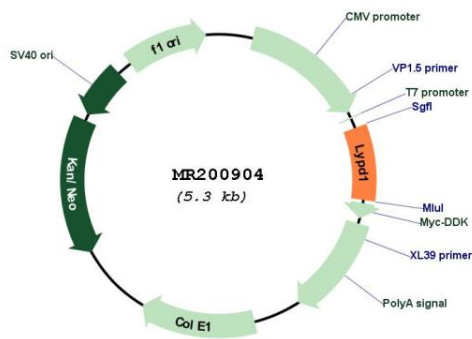
UniProt ID: [Q8BLC3](#)

Cytogenetics: 1 E3

MW: 15.7 kDa

**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 (PubMed:19246390). 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 (PubMed:26276394, PubMed:25716842). May be involved in the control of anxiety (PubMed:19246390).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR200904