

## **Product datasheet for MR227405L3**

## Dlg4 (NM\_007864) Mouse Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Dlg4 (NM\_007864) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Dlg4

Synonyms: Dlgh4; PSD-95; PSD95; SAP90; SAP90A

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(MR227405).

Sgfl-Mlul

Sequence:

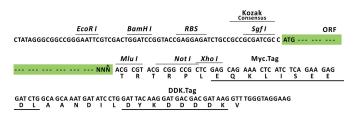
ice:

Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf 1 ORF Mlu 1

----GCG ATC GCC ATG ---//--- NNN ACG CGT ---



 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** NM\_007864

ORF Size: 2172 bp



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### Dlg4 (NM\_007864) Mouse Tagged Lenti ORF Clone - MR227405L3

**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: <u>NM 007864.3, NP 031890.1</u>

 RefSeq Size:
 3339 bp

 RefSeq ORF:
 2175 bp

 Locus ID:
 13385

 UniProt ID:
 Q62108

 Cytogenetics:
 11 B3

**Gene Summary:** Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium

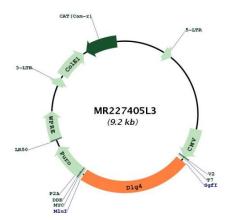
channels. Required for synaptic plasticity associated with NMDA receptor signaling.

Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B. Also regulates AMPA-type glutamate receptor (AMPAR) immobilization at postsynaptic density keeping the channels in an activated state in the presence of glutamate and preventing synaptic

depression (Probable).[UniProtKB/Swiss-Prot Function]



# **Product images:**



Circular map for MR227405L3