

Product datasheet for **MC221074**

Dlg4 (NM_007864) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlg4 (NM_007864) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dlg4
Synonyms:	Dlgh4; PSD-95; PSD95; SAP90; SAP90A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Sgfl-MluI
ACCN:	NM_007864
Insert Size:	2175 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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"> 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:	<u>NM_007864.3</u> , <u>NP_031890.1</u>


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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 (AMPA) 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]

Transcript Variant: This variant (1) contains an alternate 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 6. The encoded isoform (1) has a distinct N-terminus and is shorter than isoform 6.