

## Product datasheet for **MC221073**

### **Dlg4 (NM\_001109752) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dlg4 (NM_001109752) 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)



[View online »](#)

**Fully Sequenced ORF:** >MC221073 representing NM\_001109752  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACTGTCTCTGTATAGTGACAACCAAGAAATACCGCTACCAAGATGAAGACACGCCCCCTCTGGAAC  
 ACAGCCCGGCCACCTCCCAACCAGGCCAATTCCTCCCTGTGATTGTCAACACGACACCCTAGAAGC  
 CCCAGGATATGTGAACGGAACAGAGGGGAGATGGAGTATGAGGAGATCACATTGGAAAAGGGTAACTCA  
 GGTCTGGGCTTCAGCATCGCAGGTGGCACCACAACCCACACATCGGTGACGACCCATCCATCTTTATCA  
 CCAAGATCATTCTGGTGGGCTGCAGCCAGGATGGCCGCTCAGGGTCAACGACAGCATCCTGTTTGT  
 CAATGAAGTGGATGTCCGGGAGGTGACCCATTAGCTGCAGTGGAGGCCCTCAAAGAGCGGGTTCCATC  
 GTTCGCTCTACGTCATGCGCCGAAACCCCAAGTGCAGGAGATCATAGAGATCAAGCTTATCAAAGGGC  
 CTAAGGACTTGGCTTCAGCATCGCAGGGGGCTTGGGAACCAGCACATCCCTGGAGATAATAGCATCTA  
 CGTAACCAAGATCATCGAAGGAGCGCTGCCACAAGGATGGCAGGTTGCAGATCGGAGACAAGATCCTG  
 GCGGTCAACAGTGTGGGGCTAGAGGATGTATGCATGAGGACCGCGTGGCAGCCCTGAAGAACACATATG  
 ACGTTGTGTACCTAAAGGTGGCCAAGCCAGCAATGCCTACCTGAGTGACAGCTATGCTCCCCCAGACAT  
 CACAACCTCATATTCTCAGCACCTGGACAATGAGATCAGTCATAGCAGCTACTTGGGCACCGACTACCC  
 ACAGCCATGACCCCACTTCCCTCGGGCTACTCCCCGTGGCCAAGGACCTGCTAGGGGAGGAAGATA  
 TTCCCGGGAACCAAGGCGGATCGTGATCCATCGGGCTCCACCGGCCTGGGCTTCAACATTGTGGGCGG  
 CGAGGACGGTGAAGGCATCTTCTCCTTCATCCTTGTGGGGTCCAGCTGACCTCAGTGGGGAGCTA  
 CGGAAGGGGACCAGATCCTGTCCGTCAATGGTGTGACCTCCGCAATGCCAGTCATGAACAGGCTGCCA  
 TTGCCCTGAAGAACGCGGTGACAGCGTACGATCATCGCTCAGTATAAACCAGAAGAGTATAGCCGATT  
 CGAGGCCAAGATCCATGATCTTCGGGAACAGCTTATGAATAGTACCTGGGCTCAGGGACTGCATCTCTG  
 CGAAGCAACCCCAAGCGGGCTTCTATATCAGGGCCCTGTTTACTACGACAAGCAAGGACTGCGGTT  
 TCTTGAGCCAGGCCCTGAGCTTCCACTTTGGGATGTGCTTATGTAATTGACGCCACGACGAAGAGTG  
 GTGGCAAGCGGGCGGTCCACTCTGACAGTGAGACCGATGACATTGGCTTATTCCAGCAAACGGCGG  
 GTCGAGCGACGAGAGTGGTCAAGGTTAAAGGCCAAGGACTGGGGCTCCAGCTCTGGATCACAGGGTTCGAG  
 AAGACTCGGTTCTGAGCTATGAGACGGTACGACAGATGGAAGTGCACACTACGCTCGCCCCATCATCCT  
 TGGGCTACCAAAGACCGTGCCAACGATGATCTTCTCCTCCGAGTCCCCGACAAGTTGGATCCTGTGTC  
 CCTCATACGACAGTCTAAGCGGAATATGAGATAGACGGCCGCGATTACCACTTTGTCTCTCCCGGG  
 AGAAAATGGAGAAGGACATTAGGCGCACAAAGTTCATTGAGGCTGGCCAGTACAACAGCCACCTCTACGG  
 GACCAGCTCCAGTCTGTGCGAGAGGTAGCAGAGCAGGGGAAGCACTGCATCCTTGATGTCTCAGCCAAT  
 GCCGTGCGGGCGGCTGCAGGCGGCCACCTGCACCTATCGCCATCTTATCCGTCGCCCGCTCCCTGGAGA  
 ATGTGCTAGAGATCAATAAGCGGATCACAGAGGAGCAAGCCCGAAAGCCTTCGACAGGGCCACGAAGCT  
 GGAGCAGGAGTTCACGGAGTGCTTCTCAGCCATCGTAGAGGGCGACAGCTTTGAAGAGATCTATCACAAA  
 GTGAAACGTGTATCGAAGACCTCTCAGGCCCTACATCTGGGTCCCAGCCCGAGAGAGACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001109752

**Insert Size:** 2166 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<u>NM_001109752.1, NP_001103222.1</u>
<b>RefSeq Size:</b>	3330 bp
<b>RefSeq ORF:</b>	2166 bp
<b>Locus ID:</b>	13385
<b>UniProt ID:</b>	<u>Q62108</u>
<b>Cytogenetics:</b>	11 B3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) 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 (2) has a distinct N-terminus and is shorter than isoform 6.</p>