

## Product datasheet for **MC222050**

### **Dlg2 (NM\_011807) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dlg2 (NM_011807) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dlg2
Synonyms:	A330103J02Rik; B230218P12Rik; B330007M19Rik; Dlgh2; Gm1197; Gm21505; PSD93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222050 representing NM\_011807  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCTTTGCATGTTATTGTGCACTCCGGACTAACGTAAGAAGTATCGATACCAAGATGAGGACGGTC  
 CACATGATCATTCTTACCTCGGCTAACTCATGAAGTAAGAGGGCCAGAAGTTGTGCATGTGTCCGAAAA  
 GAACCTCTCTCAATAGAAAATGTGCACGGATATGTCTTACAGTCTCACATCTCTCTCTGAAGGCTAGC  
 CCTGCTCTATAATTGTCAACACAGACACTTTGGACACTATTCCTTATGTCAATGGAACAGAAAATTGAAT  
 ATGAATTTGAAGAAATTACATTGGAGAGGGGAAATTCAGGTCTGGGATTCAGTATTGCTGGAGGGACAGA  
 TAATCCCCACATTGGAGATGACCCTGGCATATTTATTACGAAGATTATCCAGGAGGTGCTGCGGCAGAG  
 GATGGCAGACTCAGGGTCAACGACTGTATCTTGGGGTGAATGAAGTTGATGTGCAGAGGTTTCCACACA  
 GTAAGCAGTGAAGCCCTCAAGGAAGCCGGCTCTATTGTGCGGTGTACGTGCGCAGAAGGCGACCCAT  
 ATTTGGAGACTGTTGTGGAATCAAACCTTTTTAAAGGTCCAAAAGTTTAGGCTTCAGTATTGCTGGAGGG  
 GTGGGGAACAGCACATTCCTGGAGACAACAGCATCTATGTAACAAAAATTATAGATGGTGGAGCTGCAC  
 AGAAAGATGGAAGTTGCAAGTAGGAGACAGACTGCTAATGGTAAATAACTATAGTTTAGAAGAAGTTAC  
 ACACGAAGAGGCTGTAGCGATATTGAAGAACACATCTGATGTTGTTTATCTAAAAGTTGGCAAACCCACC  
 ACTATTTATGACTGATCCTTATGGGCCACCGGATATTACTCACTCTTATTCTCCACCGATGAAAAATC  
 ATCTACTGTCTGGTAACAATGGCACATTAGAATACAAGACTTCCCTGCCGCCATCTCTCCAGGAAGGTA  
 CTCACCAATCCCAAGCACATGCTGGGTGAAGTAGACTACACCAGGCCCGGAACTGTTTACAGCACT  
 GTGAATAAAGTGTGTGATAAGCCTGCTTCTCCAGGCACTATCCCTGTTGAGTGTGACAAAAGCTTCC  
 TTCTCTCAACTCCCTACCCCACTACCACCTAGGCCTGCTCCCTGACTGACATGACCAAGTCAATCCCA  
 GCACAGTACTGCAACTCGCCAGCCTTCAGTGACTCTCAAACGGGCCATCTCCCTGGAAGGGGAGCCCGC  
 AAGGTAGTCCTTCACAAAGGCTCCACTGGCCTGGGCTTCAACATTGTGGCGGGGAAGTGGAGAAGGTA  
 TTTTTGTATCCTTCATTCTGGCCGTGGACCAGCAGACCTGAGTGGGAGCTCCAGAGAGGAGACCAGAT  
 CTTGTCCGTGAATGGAATCGATCTTCGAGGAGCATCCCATGAGCAGGCAGCTGCAGCACTGAAGGGGGCT  
 GGACAGACTGTGACAATCATAGCACAATATCAACCTGAAGATTACGCTCGATTTGAGGCCAAAATCCATG  
 ACCTACGAGAGCAGATGATGAACCACAGCATGAGCTCCGGTCCGGTCCCTTCGAACCAATCAGAAACG  
 CTCCCTGTATGTCAGAGCCATGTTTGACTATGACAAGAGCAAGGACAGTGGGCTGCCAGCCAAGGACTT  
 AGTTTTAAATATGGAGACATCCTTCATGTCATCAATGCCTCTGATGATGAGTGGTGGCAAGCCAGAAAGG  
 TCACACTAGATGGGACAGCGAGGAGATGGGCGTCATCCAGCAAGCGGAGGGTGGAAAGAAAGGAGCG  
 TGCCCGATTGAAGACAGTGAAGTTCAATGCAAAACCTGGTGTGATTGATTCCAAAGGGGACATCCCGGA  
 TTAGGTGACGACGGTTATGGAACAAAGACTCTGAGAGGACAAGAAGATCTCATTCTTTCCTATGAACCTG  
 TCACGAGGCAGGAAATAAAGTACACGCGCCAGTATTCTGGGCCCATGAAGGATCGAATCAATGA  
 TGACTTGATATCTGAATTCCTGATAAATTTGGCTCCTGTGTGCCTCATACTACGAGGCCAAAGCGTGAC  
 TACGAAGTCGACGGCAGAGACTACACTTTGTCAATTTCTAGAGAACAATGGAGAAGATATCCAAGAGC  
 ACAATTTATAGAAGCTGGCCAGTACAATGACAATTTATACGGAACCAAGTGTGAATCTGTGAGATTTGT  
 AGCAGAAAAGGGCAAGCACTGTACTTGTATGATGATCAGGAAATGCTATTAAGCGTTACAAGTCGCCAG  
 CTCTATCCCATTTGCCATTTATAAAGCCAAGTCTCTGGAACCTCTGATGGAGATGAATAAGCGTCTGA  
 CAGAGGAACAAGCCAAGAAAACCTTATGACCGGGCGATTAAACTAGAACAAGAATTTGGAGAATATTTTAC  
 AGCTATTGTCCAAGGAGATACCTTAGAAGATATTTACAACCAATGCAAGCTTGTATTGAAGAGCAGTCT  
 GGACCTTTCATCTGGATTCCTCAAAGGAGAAGTTAA**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_011807  
**Insert Size:** 2559 bp

<b>OTI Disclaimer:</b>	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>	<a href="#">NM_011807.3</a> , <a href="#">NP_035937.2</a>
<b>RefSeq Size:</b>	7409 bp
<b>RefSeq ORF:</b>	2559 bp
<b>Locus ID:</b>	23859
<b>UniProt ID:</b>	<a href="#">Q91XM9</a>
<b>Cytogenetics:</b>	7 51.07 cM
<b>Gene Summary:</b>	<p>Required for perception of chronic pain through NMDA receptor signaling. Regulates surface expression of NMDA receptors in dorsal horn neurons of the spinal cord. Interacts with the cytoplasmic tail of NMDA receptor subunits as well as inward rectifying potassium channels. Involved in regulation of synaptic stability at cholinergic synapses. Part of the postsynaptic protein scaffold of excitatory synapses.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>