

Product datasheet for **MC227098**

Dlg2 (NM_001243047) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlg2 (NM_001243047) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dlg2
Synonyms:	A330103J02Rik; B230218P12Rik; B330007M19Rik; Dlg2; Gm1197; Gm21505; PSD93
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227098 representing NM_001243047 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGAACCACAGCATGAGCTCCGGTCCGGTCCCTTCGAACCAATCAGAAACGCTCCCTGTATGTCA
GAGCCATGTTGACTATGACAAGAGCAAGGACAGTGGGCTGCCAGCCAAGGACTTAGTTTTAAATATGG
AGACATCCTTCATGTCATCAATGCCTCTGATGATGAGTGGTGGCAAGCCAGAAGGTCACACTAGATGGG
GACAGCGAGGAGATGGGGCTCATTCCCAGCAAGCGGAGGGTGGAAAGAAAGGAGCGTGCCCGATTGAAGA
CAGTGAAGTTCAATGCAAACCTGGTGTGATTGATTCCAAAGGGGACATCCCCGGATTAGGTGACGACGG
TTATGGAACAAAGACTCTGAGAGGACAAGAAGATCTCATTCTTTCCTATGAACCTGTCACGAGGCAGGAA
ATAAACTACACGCGGCCAGTGATTATCCTGGGCCCATGAAGGATCGAATCAATGATGACTTGATATCTG
AATTTCTGATAAATTTGGCTCCTGTGTGCCTCATACTACGAGGCCAAAGCGTACTACGAAGTCGACGG
CAGAGACTATCACTTTGTCAATTTCTAGAGAACAATGGAGAAAGATATCCAAGAGCACAAATTTATAGAA
GCTGGCCAGTACAATGACAATTTATACGGAACCAAGTGTGCAATCTGTGAGATTTGTAGCAGAAAGGGGCA
AGCACTGTATACTTGATGTATCAGGAAATGCTATTAAGCGTTACAAGTCGCCAGCTCTATCCCATTGC
CATCTTCATAAAGCCCAAGTCTCTGGAACCTCTGATGGAGATGAATAAGCGTCTGACAGAGGAACAAGCC
AAGAAAATTATGACCGGCGATTAAACTAGAACAAGAATTTGGAGAATTTTTACAGCTATTGTCCAAG
GAGATACCTTAGAAGATATTTACAACCAATGCAAGCTTGTATTGAAGAGCAGTCTGGACCTTTCATCTG
GATTCCTCAAAGGAGAAGTTA**TAA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001243047



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Insert Size:	1005 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
RefSeq:	<u>NM_001243047.1</u> , <u>NP_001229976.1</u>
RefSeq Size:	5933 bp
RefSeq ORF:	1005 bp
Locus ID:	23859
UniProt ID:	<u>Q91XM9</u>
Cytogenetics:	7 51.07 cM
Gene Summary:	<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 (3) differs in the 5' UTR and uses a downstream, in-frame start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>