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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; Dlgh2; Gm1197; Gm21505; PSD93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC227098 representing NM_001243047
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGAACCACAGCATGAGCTCCGGGTCCGGGTCCCTTCGAACCAATCAGAAACGCTCCCTGTATGTCA
GAGCCATGTTTGACTATGACAAGAGCAAGGACAGTGGGCTGCCCAGCCAAGGACTTAGTTTTAAATATGG
AGACATCCTTCATGTCATCAATGCCTCTGATGATGAGTGGTGGCAAGCCAGAAGGGTCACACTAGATGGG
GACAGCGAGGAGATGGGCGTCATTCCCAGCAAGCGGAGGGTGGAAAGAAAGGAGCGTGCCCGATTGAAGA
CAGTGAAGTTCAATGCAAAACCTGGTGTGATTGATTCCAAAGGGGACATCCCCGGATTAGGTGACGACGG
TTATGGAACAAAGACTCTGAGAGGACAAGAAGATCTCATTCTTTCCTATGAACCTGTCACGAGGCAGGAA
ATAAACTACACGCGGCCAGTGATTATCCTGGGCCCCATGAAGGATCGAATCAATGATGACTTGATATCTG
AATTTCCTGATAAATTTGGCTCCTGTGTGCCTCATACTACGAGGCCAAAGCGTGACTACGAAGTCGACGG
CAGAGACTATCACTTTGTCATTTCTAGAGAACAAATGGAGAAAGATATCCAAGAGCACAAATTTATAGAA
GCTGGCCAGTACAATGACAATTTATACGGAACCAGTGTGCAATCTGTGAGATTTGTAGCAGAAAGGGGCA
AGCACTGTATACTTGATGTATCAGGAAATGCTATTAAGCGGTTACAAGTCGCCCAGCTCTATCCCATTGC
CATCTTCATAAAGCCCAAGTCTCTGGAACCTCTGATGGAGATGAATAAGCGTCTGACAGAGGAACAAGCC
AAGAAAACTTATGACCGGGCGATTAAACTAGAACAAGAATTTGGAGAATATTTTACAGCTATTGTCCAAG
GAGATACCTTAGAAGATATTTACAACCAATGCAAGCTTGTTATTGAAGAGCAGTCTGGACCTTTCATCTG
GATTCCCTCAAAGGAGAAGTTATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-MluI

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ACCN:	NM_001243047
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:	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:	NM_001243047.1, NP_001229976.1
RefSeq Size:	5933 bp
RefSeq ORF:	1005 bp
Locus ID:	23859
UniProt ID:	Q91XM9
Cytogenetics:	7 51.07 cM
Gene Summary:	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] 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.

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