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Product datasheet for MR229309

Dlg2 (NM_001243047) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlg2 (NM_001243047) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dlg2
Synonyms:	A330103J02Rik; B230218P12Rik; B330007M19Rik; Dlgh2; Gm1197; Gm21505; PSD93
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229309 representing NM_001243047 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATGAACCACAGCATGAGCTCCGGGTCCGGGTCCCTTCGAACCAATCAGAAACGCTCCCTGTATGTCA GAGCCATGTTTGACTATGACAAGAGCAAGGACAGTGGGCTGCCCAGCCAAGGACTTAGTTTTAAATATGG AGACATCCTTCATGTCATCAATGCCTCTGATGATGAGTGGTGGCAAGCCAGAAGGGTCACACTAGATGGG GACAGCGAGGAGATGGGCGTCATTCCCAGCAAGCGGAGGGTGGAAAGAAAGGAGCGTGCCCGATTGAAGA CAGTGAAGTTCAATGCAAAACCTGGTGTGATTGATTCCAAAGGGGACATCCCCGGATTAGGTGACGACGG TTATGGAACAAAGACTCTGAGAGGACAAGAAGATCTCATTCTTTCCTATGAACCTGTCACGAGGCAGGAA ATAAACTACACGCGGCCAGTGATTATCCTGGGCCCCATGAAGGATCGAATCAATGATGACTTGATATCTG AATTTCCTGATAAATTTGGCTCCTGTGTGCCTCATACTACGAGGCCAAAGCGTGACTACGAAGTCGACGG CAGAGACTATCACTTTGTCATTTCTAGAGAACAAATGGAGAAAGATATCCAAGAGCACAAATTTATAGAA GCTGGCCAGTACAATGACAATTTATACGGAACCAGTGTGCAATCTGTGAGATTTGTAGCAGAAAGGGGCA AGCACTGTATACTTGATGTATCAGGAAATGCTATTAAGCGGTTACAAGTCGCCCAGCTCTATCCCATTGC CATCTTCATAAAGCCCAAGTCTCTGGAACCTCTGATGGAGATGAATAAGCGTCTGACAGAGGAACAAGCC AAGAAAACTTATGACCGGGCGATTAAACTAGAACAAGAATTTGGAGAATATTTTACAGCTATTGTCCAAG GAGATACCTTAGAAGATATTTACAACCAATGCAAGCTTGTTATTGAAGAGCAGTCTGGACCTTTCATCTG GATTCCCTCAAAGGAGAAGTTA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

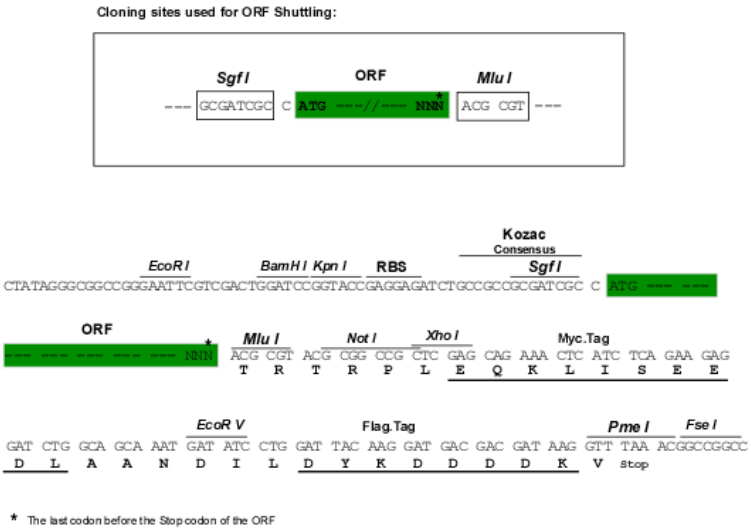
>MR229309 representing NM_001243047
Red=Cloning site Green=Tags(s)

MMNHSMSSGSGSLRTNQKRSLYVRAMFDYDKSKDSGLPSQGLSFKYGDILHVINASDDEWWQARRVTLDG
DSEEMGVIPSKRRVERKERARLKTVKFNAKPGVIDSKGDIPGLGDDGYGTKTLRGQEDLILSYEPVTRQE
INYTRPVIILGPMKDRINDDLISEFPDKFGSCVPHTTRPKRDYEVDGRDYHFVISREQMEKDIQEHKFIE
AGQYNDNLYGTSVQSVRFVAERGKHCILDVSGNAIKRLQVAQLYPIAIFIKPKSLEPLMEMNKRLTEEQA
KKTYDRAIKLEQEFGEYFTAIVQGDTLEDIYNQCKLVIEEQSGPFIWIPSKEKL

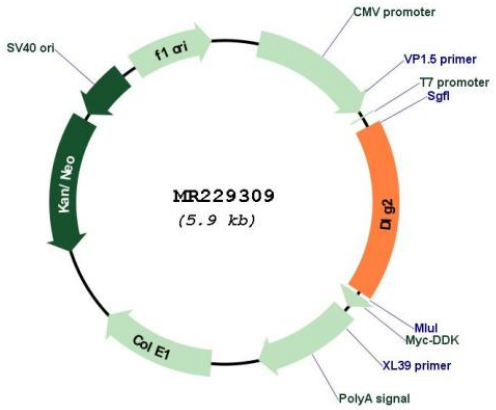
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243047

ORF Size: 1002 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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
MW:	38.8 kDa
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]