

Product datasheet for **MR222602**

Dlg2 (NM_011807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlg2 (NM_011807) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR222602 representing NM_011807
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCTTTGCATGTTATTGTGCACTCCGGACTAACGTAAGAAGTATCGATACCAAGATGAGGACGGTC
 CACATGATCATTCTTACCTCGGCTAACTCATGAAGTAAGAGGGCCAGAAGTTGTGCATGTGTCGGAAAA
 GAACCTCTCTCAATAGAAAATGTGCACGGATATGTCTTACAGTCTCACATCTCTCTCTGAAGGCTAGC
 CCTGCTCTATAATTGTCAACACAGACTTTGGACTATTCTTATGTCAATGGAACAGAAAATTGAAT
 ATGAATTTGAAGAAATTACATTGGAGAGGGGAAATTCAGGTCTGGGATTCAGTATTGCTGGAGGGACAGA
 TAATCCCCACATTGGAGATGACCCTGGCATATTTATTACGAAGATTATCCAGGAGGTGCTGCGGCAGAG
 GATGGCAGACTCAGGGTCAACGACTGTATCTTGGGGTGAATGAAGTTGATGTGCAGAGGTTTCCACA
 GTAAGCAGTGAAGCCCTCAAGGAAGCCGGCTCTATTGTGCGGTGTACGTGCGCAGAAGGCGACCCAT
 ATTTGGAGACTGTTGTGGAATCAAATTTTTAAAGGTCCAAAAGTTTAGGCTTCAGTATTGCTGGAGGG
 GTGGGGAACAGCACATTCCTGGAGACAACAGCATCTATGTAACAAAAATTATAGATGGTGGAGCTGCAC
 AGAAAGATGGAAGTTGCAAGTAGGAGACAGACTGCTAATGGTAAATAACTATAGTTTAGAAGAAGTTAC
 ACACGAAGAGGCTGTAGCGATTTGAAGAACACATCTGATGTTGTTTATCTAAAAGTTGGCAAACCCACC
 ACTATTTATAGACTGATCCTTATGGGCCACCGGATATTACTCACTCTTATTCTCCACCGATGGAATAATC
 ATCTACTGTCTGGTAACAATGGCACATTAGAATACAAGACTTCCCTGCCGCCATCTCTCCAGGAAGGTA
 CTCACCAATCCCAAGCACATGCTGGGTGAAGTAGACTACACCAGGCCCGGAACTGTTTACAGCACT
 GTGAATAAAGTGTGTGATAAGCCTGCTTCTCCAGGCACTATCCCTGTTGAGTGTGACAAAAGCTTCC
 TTCTCTCAACTCCCTACCCCACTACCACCTAGGCCTGCTCCCTGACTGACATGACAGTCAATCCCA
 GCACAGTACTGCAACTCGCCAGCCTTCAGTGACTCTCAACGGGCCATCTCCCTGGAAGGGGAGCCCCGC
 AAGGTAGTCCTTCAAAAAGGCTCCACTGGCCTGGGCTTCAACATTGTGGCGGGGAAGTGGAGAAGGTA
 TTTTTGTATCCTTCACTTGTGGCCGTGGACCAGCAGACCTGAGTGGGAGCTCCAGAGAGGAGACCAGAT
 CTTGTGCGTGAATGGAATCGATCTTCGAGGAGCATCCCATGAGCAGGCAGCTGCAGCACTGAAGGGGGCT
 GGACAGACTGTGACAATCATAGCACAATATCAACCTGAAGATTACGCTCGATTTGAGGCCAAAATCCATG
 ACCTACGAGAGCAGATGATGAACCACAGCATGAGCTCCGGTCCGGTCCCTTCAACCAATCAGAAAACG
 CTCCCTGTATGTCAGAGCCATGTTTACTATGACAAGAGCAAGGACAGTGGGCTGCCAGCCAAGGACTT
 AGTTTTAAATATGGAGACATCCTTCAATGTCATCAATGCCTCTGATGATGAGTGGTGGCAAGCCAGAAGGG
 TCACACTAGATGGGACAGCGAGGAGATGGGCGTCATCCAGCAAGCGGAGGGTGGAAAGAAAGGAGCG
 TGCCCCGATTGAAGACAGTGAAGTTCAATGCAAAACCTGGTGTGATTGATCCAAAGGGGACATCCCCGGA
 TTAGGTGACGACGGTTATGGAACAAAGACTCTGAGAGGACAAGAAGATCTCATTCTTTCCTATGAACCTG
 TCACGAGGCAGGAAATAAATACACGCGGCCAGTGATTATCCTGGGCCCATGAAGGATCGAATCAATGA
 TGACTTGATATCTGAATTCCTGATAAATTTGGCTCCTGTGTGCCTCATACTACGAGGCCAAAGCGTGAC
 TACGAAGTCGACGGCAGAGACTACACTTTGTCAATTTCTAGAGAACAATGGAGAAGATATCCAAGAGC
 ACAATTTATAGAAGCTGGCCAGTACAATGACAATTTATACGGAACCAGTGTGAATCTGTGAGATTTGT
 AGCAGAAAAGGGCAAGCACTGTACTTGTATGATGATCAGGAAATGCTATTAAGCGTTACAAGTCGCCAG
 CTCTATCCCATTTGCCATTTATAAAGCCCAAGTCTCTGGAACCTCTGATGGAGATGAATAAGCGTCTGA
 CAGAGGAACAAGCCAAGAAAACCTTATGACCGGGCGATTAACTAGAACAAGAATTTGGAGAATATTTTAC
 AGCTATTGTCCAAGGAGATACCTTAGAAGATATTTACAACCAATGCAAGCTTGTATTGAAGAGCAGTCT
 GGACCTTTCATCTGGATTCCTCAAAGGAGAAGTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222602 representing NM_011807
 Red=Cloning site Green=Tags(s)

MFFACYCALRTNVKRYQDEDGPHDHS L PRL THEVRGPELVHVSEKNLSQIENVHGYVLQSHISPLKAS
 PAPIIVNTDLDITIPYVNGTEIEYEFEEITLERGNSGLGFSIAGGTDNPHIGDDPGIFITKIIPGGAAAE
 DGRLRVNDCILRVNEVDVSEVSHSKAVEALKEAGSIVRLVYRRRRPILETVVEIKLFKGPKGLGFSIAGG
 VGNQHIPGDNSIYVTKIIDGGAQKDGRLQVGDRLLMVNNYSLEEVTHEEAVAILKNTSDVVYLKVGKPT
 TIYMTDPYGPDDITHSYSPMENHLLSGNNGTLEYKTSLPPISPGRYSPIPKHMLGEDDYTRPPEPVYST
 VNKLCDKPASPRHYSPECDKSFLLSTPYPHYHLGLLPDSMTSHSQHSTATRQPSVTLQRAISLEGEPR
 KVVHLKSGTGLGFNI VGGEDGEGIFVSFILAGGPADL SGELQRGDQILSVNGIDLRGASHEQAAAALKGA
 GQTVTIIAQYQPEDYARFEAKIHDLREQMMNHSMSGSGSLRTNQKRSLYVRAMFDYDKSKDGLPSQGL
 SFKYGDILHVINASDDEWWQARRVTLGDSEEMGVIPSKRRVERKERARLKTVKFNAKPGVIDSKGDIPG
 LGDDGYGKT LRGQEDLILSYEPVTRQEINYTRPVIILGPMKDRINDDLISEFPDKFGSCVPHTTRPKRD
 YEVDGRDYHFVISREQMEKDIQEHKFEAGQYNDNL YGTSVQSVRFVAER GKHCILDVSGNAIKRLQVAQ
 LYPIAIFIKPKSLEPLMEMNKRLTEEQAKKTYDRAIKLEQEFGEYFTAI VQGD TLEDIYNQCKLVIEEQS
 GPF IWIPSKEKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9095_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

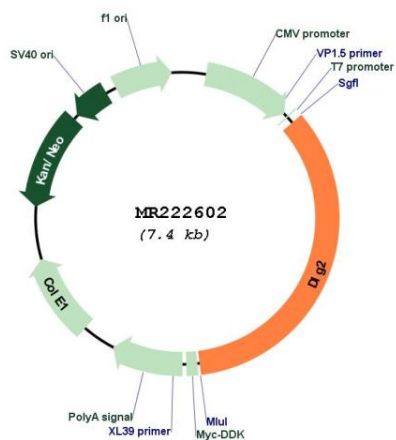
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_011807
ORF Size:	2556 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:	<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:	NM_011807.3 , NP_035937.2
RefSeq Size:	7409 bp
RefSeq ORF:	2559 bp
Locus ID:	23859
UniProt ID:	Q91XM9
Cytogenetics:	7 51.07 cM
MW:	94.9 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]

Product images:



Circular map for MR222602