

Product datasheet for **MG222602**

Dlg2 (NM_011807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlg2 (NM_011807) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dlg2
Synonyms:	A330103J02Rik; B230218P12Rik; B330007M19Rik; Dlgh2; Gm1197; Gm21505; PSD93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222602 representing NM_011807
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCTTTGCATGTTATTGTGCACTCCGGACTAACGTAAGAAGTATCGATACCAAGATGAGGACGGTC
 CACATGATCATTCTTACCTCGGCTAACTCATGAAGTAAGAGGGCCAGAAGTTGTGCATGTGTCGGAAAA
 GAACCTCTCTCAATAGAAAATGTGCACGGATATGTCTTACAGTCTCACATCTCTCTCTGAAGGCTAGC
 CCTGCTCTATAATTGTCAACACAGACTTTGGACTATTCTTATGTCAATGGAACAGAAAATTGAAT
 ATGAATTTGAAGAAATTACATTGGAGAGGGGAAATTCAGGTCTGGGATTCAGTATTGCTGGAGGGACAGA
 TAATCCCCACATTGGAGATGACCCTGGCATATTTATTACGAAGATTATCCAGGAGGTGCTGCGGCAGAG
 GATGGCAGACTCAGGGTCAACGACTGTATCTTGGGGTGAATGAAGTTGATGTGCAGAGGTTTCCACACA
 GTAAGCAGTGAAGCCCTCAAGGAAGCCGGCTCTATTGTGCGGTGTACGTGCGCAGAAGGCGACCCAT
 ATTTGGAGACTGTTGTGGAATCAAACCTTTTTAAAGGTCCAAAAGTTTAGGCTTCAGTATTGCTGGAGGG
 GTGGGGAACCAGCACATTCCTGGAGACAACAGCATCTATGTAACAAAAATTATAGATGGTGGAGCTGCAC
 AGAAAGATGGAAGTTGCAAGTAGGAGACAGACTGCTAATGGTAAATAACTATAGTTTAGAAGAAGTTAC
 ACACGAAGAGGCTGTAGCGATATTGAAGAACACATCTGATGTTGTTTATCTAAAAGTTGGCAAACCCACC
 ACTATTTATAGACTGATCCTTATGGGCCACCGGATATTACTCACTCTTATTCTCCACCGATGGAATAATC
 ATCTACTGTCTGGTAACAATGGCACATTAGAATACAAGACTTCCCTGCCGCCATCTCTCCAGGAAGGTA
 CTCACCAATCCCAAGCACATGCTGGGTGAAGTAGACTACACCAGGCCCGGAACTGTTTACAGCACT
 GTGAATAAACTGTGTGATAAGCCTGCTTCTCCAGGCACTATCCCTGTTGAGTGTGACAAAAGCTTCC
 TTCTCTCAACTCCCTACCCCACTACCACCTAGGCCTGCTCCCTGACTGACATGACCAAGTCAATCCCA
 GCACAGTACTGCAACTCGCCAGCCTTCAGTGACTCTCAAACGGGCCATCTCCCTGGAAGGGGAGCCCGC
 AAGGTAGTCCTTCAAAAAGGCTCCACTGGCCTGGGCTTCAACATTGTGGCGGGGAAGTGGAGAAGGTA
 TTTTTGTATCCTTCACTTGTGGCCGTGGACCAGCAGACCTGAGTGGGAGCTCCAGAGAGGAGACCAGAT
 CTTGTGCGTGAATGGAATCGATCTTCGAGGAGCATCCCATGAGCAGGCAGCTGCAGCACTGAAGGGGGCT
 GGACAGACTGTGACAATCATAGCACAATATCAACCTGAAGATTACGCTCGATTTGAGGCCAAAATCCATG
 ACCTACGAGAGCAGATGATGAACCACAGCATGAGCTCCGGTCCGGTCCCTTGAACCAATCAGAAAACG
 CTCCTGTATGTCAGAGCCATGTTTACTATGACAAGAGCAAGGACAGTGGGCTGCCAGCCAAGGACTT
 AGTTTTAAATATGGAGACATCCTTCAATGTCATCAATGCCTCTGATGATGAGTGGTGGCAAGCCAGAAGGG
 TCACACTAGATGGGACAGCGAGGAGATGGGCGTCATCCAGCAAGCGGAGGGTGGAAAGAAAGGAGCG
 TGCCCGATTGAAGACAGTGAAGTTCAATGCAAAACCTGGTGTGATTGATCCAAAGGGGACATCCCGGGA
 TTAGGTGACGACGGTTATGGAACAAAGACTCTGAGAGGACAAGAAGATCTCATTCTTTCCTATGAACCTG
 TCACGAGGCAGGAAATAAATACACGCGGCCAGTGATTATCCTGGGCCCATGAAGGATCGAATCAATGA
 TGACTTGATATCTGAATTCCTGATAAATTTGGCTCCTGTGTGCCTCATACTACGAGGCCAAAGCGTGAC
 TACGAAGTCGACGGCAGAGACTACACTTTGTCAATTTCTAGAGAACAATGGAGAAGATATCCAAGAGC
 ACAATTTATAGAAGCTGGCCAGTACAATGACAATTTATACGGAACCAGTGTGAATCTGTGAGATTTGT
 AGCAGAAAAGGGCAAGCACTGTACTTGTATGATGATCAGGAAATGCTATTAAGCGTTACAAGTCGCCAG
 CTCTATCCCATTTGCCATTTATAAAGCCCAAGTCTCTGGAACCTCTGATGGAGATGAATAAGCGTCTGA
 CAGAGGAACAAGCCAAGAAAACCTTATGACCGGGCGATTAACTAGAACAAGAATTTGGAGAATATTTTAC
 AGCTATTGTCCAAGGAGATACCTTAGAAGATATTTACAACCAATGCAAGCTTGTATTGAAGAGCAGTCT
 GGACCTTTCATCTGGATTCCCTCAAAGGAGAAGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222602 representing NM_011807
Red=Cloning site Green=Tags(s)

MFFACYCALRTNVKKYRYQDEDGPHDHSPLRLTHEVRGPELVHVSEKNLSQIENVHGYVLQSHISPLKAS
PAPIIVNTDLDLTIPIYVNGTEIEYEFEEITLERGNSGLGFSIAGGTDNPHIGDDPGIFITKIIPGGAAAE
DGRLRVNDCILRVNEVDVSEVSHSKAVEALKEAGSIVRLYVRRRRPILETVVEIKLFKGPKGLGFSIAGG
VGNQHIPGDNISIVYTKIIDGGAQKDGRLQVGDRLLMVNNYSLEEVTHEEAVAILKNTSDVVYLKVGKPT
TIYMTDPYGPPDITHSYSPMENHLLSGNNGTLEYKTSLPPISPGRYSPIPKHMLGEDDYTRPPEPVYST
VNKLCDKPASPRHYSPECDKSFLLSTPYPHYHLGLLPDSDMTSHSQHSTATRQPSVTLQRAISLEGEPR
KVVLHKGSTGLGFNI VGGEDGEGIFVSFILAGGPADL SGELQRGDQILSVNGIDLRGASHEQAAAALKGA
GQTVTIIAQYQPEDYARFEAKIHDLREQMMNHSMSSGSGSLRTNQKRSLYVRAMFDYDKSKDSGLPSQGL
SFKYGDILHVINASDDEWWQARRVTLGDSEEMGVIPSKRRVERKERARLKTVKFNAKPGVIDSKGDIPG
LGDDGYGKTLRGQEDLILSYEPVTRQEIYNYTRPVIIIGPMKDRINDDLISEFPDKFGSCVPHTTRPKRD
YEVDGRDYHFVISREQMEKDIQEHKFEAGQYNDNLYGTSVQSVRFVAERGGKHCILDVSGNAIKRLQVAQ
LYPIAIFIKPKSLEPLMEMNKRLTEEAKKTYDRAIKLEQEFGEYFTAIVQGDLTLEDIYNQCKLVIEEQS
GPF IWIPSKEKL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



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:

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: 7252 bp

RefSeq ORF: 2559 bp

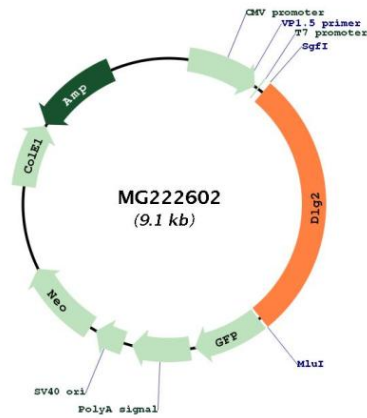
Locus ID: 23859

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]

Product images:



Circular map for MG222602