

Product datasheet for **MR210275**

Dlg4 (NM_001109752) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Dlg4 (NM_001109752) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Dlg4 |
| Synonyms: | Dlgh4; PSD-95; PSD95; SAP90; SAP90A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>MR210275 representing NM_001109752
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTGTCTGTATAGTGACAACCAAGAAATACCGCTACCAAGATGAAGACACGCCCCCTCTGGAAC
ACAGCCCGGCCACCTCCCAACCAGGCCAATTCCTCCCTGTGATTGTCAACACGGACACCCTAGAAGC
CCCAGGATATGTGAACGGAACAGAGGGGAGATGGAGTATGAGGAGATCACATTGAAAAGGGTAACTCA
GGTCTGGGCTTACGATCGCAGGTGGCACCACACACATCGGTGACGACCCATCCATCTTTATCA
CCAAGATCATTCTGGTGGGCTGCAGCCAGGATGGCCGCTCAGGGTCAACGACAGCATCCTGTTTGT
CAATGAAGTGGATGTCCGGGAGGTGACCCATTAGCTGACAGTGGAGGCCCTCAAAGAGCGGGTTCATC
GTTCCGCTCTACGTCATGCGCCGAAACCCAGCTGAGAAGATCATAGAGATCAAGCTTATCAAAGGGC
CTAAAGGACTTGGCTTACGATCGCAGGGGGCTTGGAAACCAGCACATCCCTGGAGATAATAGCATCTA
CGTAACCAAGATCATCGAAGGAGCGCTGCCACAAGGATGGCAGGTTGCAGATCGGAGACAAGATCCTG
GCGGTCAACAGTGTGGGGCTAGAGGATGTATGCATGAGGACGCCGTGGCAGCCCTGAAGAACACATATG
ACGTTGTGTACCTAAAGGTGGCCAAGCCAGCAATGCCTACCTGAGTGACAGCTATGCTCCCCCAGACAT
CACAACCTCATATTCTCAGCACCTGGACAATGAGATCAGTCATAGCAGCTACTTGGGCACCGACTACCC
ACAGCCATGACCCCACTTCCCTCGGCCTACTCCCGTGGCCAAGGACCTGCTAGGGGAGGAAGATA
TTCCCGGGAACCAAGGCGGATCGTGATCCATCGGGGCTCCACCGGCCTGGGCTTCAACATTGTGGGCGG
CGAGGACGGTGAAGGCATCTTCTCTCCTTATCCTTGTGGGGTCCAGCTGACCTCAGTGGGGAGCTA
CGAAGGGGGACAGATCCTGTCCGTCAATGGTGTGACCTCCGCAATGCCAGTCATGAACAGGATAGCCG
TTGCCCTGAAGAACGCGGTCAGACGGTCAGATCATCGCTCAGTATAAACCAGAAGATAGCCGATT
CGAGGCCAAGATCCATGATCTTTCGGAACAGCTTATGAATAGTACCTGGGCTCAGGACTGCATCTCTG
CGAAGCAACCCCAAGCGGGCTTCTATATCAGGGCCCTGTTTACTACGACAAGCAAGGACTGCGGTT
TCTTGAGCCAGGCCCTGAGCTTCCACTTTGGGATGTGCTTATGTAATTGACGCCAGCGAAGAGTG
GTGGCAAGCGCGGCTCCACTCTGACAGTGAGACCGATGACATTGGCTTATTCCAGCAAACGGCGG
GTCGAGCGACGAGAGTGGTCAAGTTAAAGGCCAAGGACTGGGGCTCCAGCTCTGGATCACAGGGTCGAG
AAGACTCGTTCTGAGCTATGAGACGGTGACGCAGATGGAAGTGCCTACGCTCGCCCCATCATCATCT
TGGGCCTACCAAAGACCGTGCCAACGATGATCTTCTCTCCGAGTCCCCGACAAGTTGGATCCTGTGTC
CCTCATACGACAGTCTTAAGCGGAATATGAGATAGACGGCCGCGATTACCACTTTGTCTCTCCCGGG
AGAAAATGGAGAAGGACATTAGGCGCACAAAGTTCATTGAGGCTGGCCAGTACAACAGCCACCTCTACGG
GACCAGCTCCAGTCTGTGCGAGAGGTAGCAGAGCAGGGGAAGCACTGCATCCTTGATGTCTCAGCCAAT
GCCGTGCGGGCGGCTGCAGGCGGCCACCTGCACCTATCGCCATCTTATCCGTCGCCGCTCCCTGGAGA
ATGTGCTAGAGATCAATAAGCGGATCACAGAGGAGCAAGCCCGAAAGCCTTCGACAGGGCCACGAAGCT
GGAGCAGGAGTTCACGGAGTGCTTCTCAGCCATCGTAGAGGGCGACAGCTTTGAAGAGATCTATCACAAA
GTGAAACGTGTCATCGAAGACCTCTCAGGCCCTACATCTGGGTCCAGCCCGAGAGAGACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210275 representing NM_001109752
 Red=Cloning site Green=Tags(s)

MDLCLIVTTKKYRYQDEDTPPLEHSPAHLPNQANSPPVIVNTDTLEAPGYVNGTEGEMEYEEITLERNSS
 GLGFSIAGGTDNPHIGDDPSIFITKIIIPGGAAAQDGRRLVNDLILFVNEVDVREVTHTSAAVEALKEAGSI
 VRLVYMRRKPPAEKIIIEIKLIKPKGLGFSIAGGVGNQHIPGDNSIYVTKIIEGGAHKGRLQIGDKIL
 AVNSVGLIEDVMHEDAVALKNTYDVVYLKVAKPSNAYLSDSYAPPDITTSYSQHLDNEISHSSYLGTDYP
 TAMTPSPRRYSPVAKDLLGEEDIPREPRRIVHRGSTLGFNIVGGEDGEGIFISFILAGGPADLSGEL
 RKGDQILSVNGVDLRNASHEQAALKNAGQVTIIAQYKPEEYSRFEAKIHDLREQLMNSSLSGSGTASL
 RSNPKRGFYIRALFDYDKTKDCGFLSQALSFHFGDVLHVIDASDEEWWQARRVHSDSETDDIGFIPSKRR
 VERREWSRLKAKDWGSSSGSQGREDSVLSYETVTQMEVHYARPIIILGPTKDRANDLLSEFPDKFGSCV
 PHTTRPKREYIDGRDYHFVSSREKMEKDIQAHKFI EAGQYNSHLYGTSVQSVREVAEQGKHCILDVANS
 AVRRLQAHLHPAIFIRPSLENVLEINKRITEEQARKAFDRATKLEQEFTECFSAIVEGDSFEEIYHK
 VKRVIEDLSGPYIWWPARERL

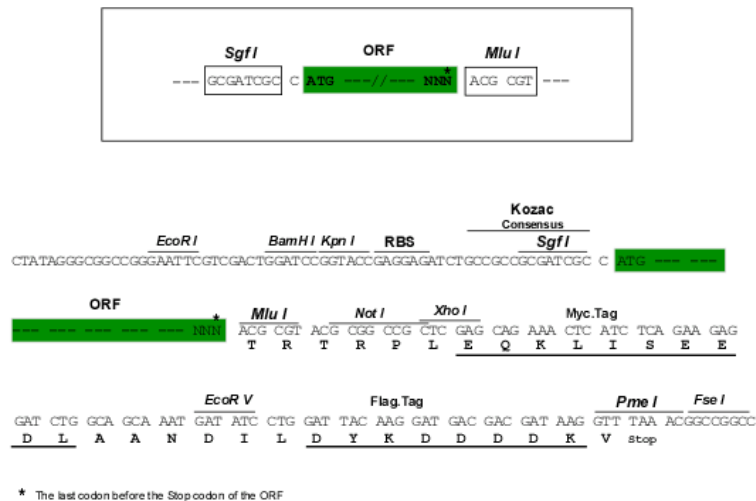
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_a03.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_001109752

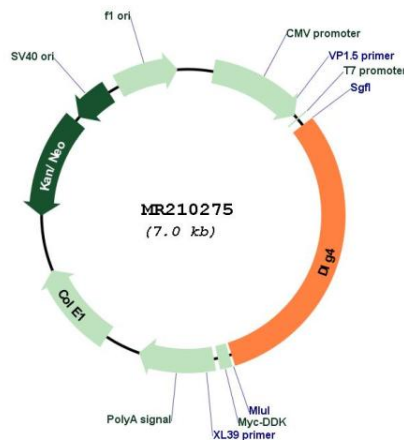
ORF Size: 2163 bp

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: | <u>NM_001109752.1</u> , <u>NP_001103222.1</u> |
| RefSeq Size: | 3330 bp |
| RefSeq ORF: | 2166 bp |
| Locus ID: | 13385 |
| UniProt ID: | <u>Q62108</u> |
| Cytogenetics: | 11 B3 |
| MW: | 80.6 kDa |
| Gene Summary: | <p>Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium channels. Required for synaptic plasticity associated with NMDA receptor signaling. Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B. Also regulates AMPA-type glutamate receptor (AMPA) immobilization at postsynaptic density keeping the channels in an activated state in the presence of glutamate and preventing synaptic depression (Probable).[UniProtKB/Swiss-Prot Function]</p> |

Product images:



Circular map for MR210275