

Product datasheet for **MG210275**

Dlgh4 (BC014807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlgh4 (BC014807) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dlgh4
Synonyms:	SAP90, PSD-95, SAP90A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG210275 representing BC014807
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTGTCTCTGTATAGTGACAACCAAGAAATACCGCTACCAAGATGAAGACACGCCCCCTCTGGAAC
 ACAGCCCGGCCACCTCCCAACCAGGCCAATTCCTCCCTGTGATTGTCAACACGGACACCCTAGAAGC
 CCCAGGATATGTGAACGGAACAGAGGGGAGATGGAGTATGAGGAGATCACATTGAAAAGGGTAACTCA
 GGTCTGGGCTTCAGCATCGCAGGTGGCACCACAACCCACACATCGGTGACGACCCATCCATCTTTATCA
 CCAAGATCATTCTGGTGGGCTGCAGCCAGGATGGCCGCTCAGGGTCAACGACAGCATCCTGTTTGT
 CAATGAAGTGGATGTCCGGGAGGTGACCCATTAGCTGACGTGGAGGCCCTCAAAGAGCGGGTTCATC
 GTTCGCTCTACGTCATGCGCCGAAACCCCAAGTGCAGAGATCATAGAGATCAAGCTTATCAAAGGGC
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 CGTAACCAAGATCATCGAAGGAGCGCTGCCACAAGGAGGGCAGTTGCAGATCGGAGACAAGATCCTG
 GCGGTCAAAGTGTGGGCTAGAGGATGTATGCATGAGGACGCCGTGGCAGCCCTGAAGAACACATATG
 ACGTTGTGTACCTAAAGGTGGCCAAGCCAGCAATGCCTACCTGAGTGACAGCTATGCTCCCCCAGACAT
 CACAACCTCATATTCTCAGCACCTGGACAATGAGATCAGTCATAGCAGCTACTTGGGCACCGACTACCC
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 CCTCATACGACAGTCTTAAGCGGAATATGAGATAGACGGCCGCGATTACCACTTTGTCTCTCCCGGG
 AGAAAATGGAGAAGGACATTAGGCGCACAAAGTTCATTGAGGCTGGCCAGTACAACAGCCACCTCTACGG
 GACCAGCTCCAGTCTGTGCGAGAGGTAGCAGAGCAGGGGAAGCACTGCATCCTTGATGTCTCAGCCAAT
 GCCGTGCGGGCGGCTGCAGGCGGCCACCTGCACCTATCGCCATCTTATCCGTCGCCGCTCCCTGGAGA
 ATGTGCTAGAGATCAATAAGCGGATCACAGAGGAGCAAGCCCGAAAGCCTTCGACAGGGCCACGAAGCT
 GGAGCAGGAGTTCACGGAGTGCTTCTCAGCCATCGTAGAGGGCGACAGCTTTGAAGAGATCTATCACAAA
 GTGAAACGTGTCATCGAAGACCTCTCAGGCCCTACATCTGGGTCCCAGCCCGAGAGAGACTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210275 representing BC014807
 Red=Cloning site Green=Tags(s)

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MDCLCIVTTKKYRYQDEDTPPLEHSPAHLPNQANSPPVI VNTDTLEAPGYVNGTEGEMEEYEEITLERNGS
GLGFSIAGGTDNPHIGDDPSIFITKIIPGGAAAQDGLRVNDSILFVNEVDVREVTHSAAVEALKEAGSI
VRLYVMRRKPPAEKIIIEIKLIKGPKGLGFSIAGGVGNQHIPGDNSIYVTKIIEGGAAHKEGRLQIGDKIL
AVNSVGLLEDVMHEDAVAALKNTYDVVYLKVAKPSNAYLSDSYAPPDITTSYSQHL DNEISHSSYLGTDYP
TAMTPTSPRRYSPVAKDLLGEEDIPREPRRIVIHGSGTGLGFNI VGGEDGEGIFISFILAGGPADLSGEL
RKGDQILSVNGVDLRNASHEQAAIALKNAGQVTIIAQYKPEEYSRFEAKI HDLREQLMNSSLSGSGTASL
RSNPKRGFYIRALFDYDKTKDCGFLSQALS FHFQDVLHVIDASDEEWWQARRVHSDSETDDIGFIPSKRR
VERREWSRLKAKDWGSSSGSQGREDSVLSYETVTQMEVHYARPIIILGPTKDRANDDLLSEFPDKFGSCV
PHTTRPKREYIDGRDYHFVSSREKMEKDIQAHKFI EAGQYNHLYGT SVQSVREVAEQGKHCILDV SAN
AVRRLQAHLHPAIFIRPRSLNVLEINKRITEEQARKAFDRATKLEQEFTECFSAIVEGDSFEEIYHK
VKRVIEDLSGPYIWWPARERL
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC014807

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC014807](#), [AAH14807](#)

RefSeq Size: 3076 bp

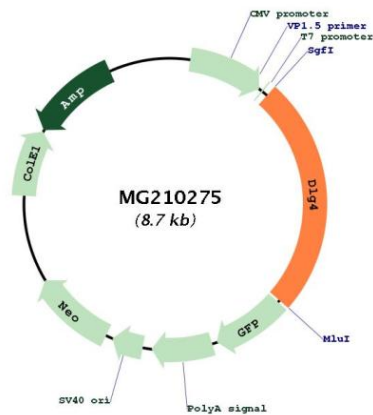
RefSeq ORF: 2165 bp

Locus ID: 13385

Cytogenetics: 11 B3

Gene Summary: 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]

Product images:



Circular map for MG210275