

## Product datasheet for **MR210798**

### **Dlgh3 (BC094368) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dlgh3 (BC094368) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dlgh3
Synonyms:	SAP102, DLG3, mKIAA1232
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210798 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACAAGCACCAGACTGCTGTAAGTCCCCGAGTGCATATGAGGTGACCCGCCTGGCCGCCCTGCGGC  
 GTCTTGAGCCTCCTGGCTACGGGGACTGGCAGGTGCCGGACCCCTATGGGCCAAGTGGGGCAATGGGGC  
 TAGCTCCGGTTATGGAGGCTACAGCTCGCAGACCCCTGCCTTCACAGGCAGGGGCTACCCCAACCCCTCGC  
 ACCAAGGCCAAGCTCATCCACAGGCCGAGATGTGGGGCAGTGCCCCCTAAGCCAGTCCCGGCAAGA  
 GCACCCAAAACCAACGGCAGTGGCCCGGCTGGTGGCCGAGTGACCTGTACCAACCGGACTGGTA  
 TGAGCAGGTGAATGGCAGTGATGGCATGTTCAAGTATGAGGAGATAGTACTGGAACGGGGCAACTCTGGC  
 CTTGGCTTCAGTATCGCAGGTGGCATCGACAACCCCTCATGTCCCTGATGACCCTGGCATCTTTATTACCA  
 AGATCATTCTGGTGGAGCAGCTGCCATGGATGGGAGGCTGGGGTGAATGACTGTGTGCTACGGGTGAA  
 TGAGGTGGACGTGTCGAGGTGGTGCACAGCCGGGCCGTGGAGGCACTGAAGGAGGCAGGCCCTGTGGTG  
 CGGTTGGTGGTGGGAGGCGACAGCCCACTGAGACTATCATGGAGGTCAACCTGCTCAAAGGGCCAA  
 AAGGCCTAGGTTTCAGCATTGCTGGGGGCAATTGGCAACCAGCACATCCCAGGAGACAACAGCATCTATAT  
 CACCAAGATCATTGAAGGAGGAGCTGCTCAGAAGGATGGACGCCTACAGATTGGGGACCGGCTGCTTGCG  
 GTGAACAATACCAATCTGCAGGATGTGAGGCATGAGGAAGCTGTGGCCTCACTCAAGAACACATCAGACA  
 TGGTCTATCTGAAGTGGCCAAGCCAGGCAGCATCCACCTCAACGATATGTATGCTCCCCCTGACTATGC  
 CAGCACTTTCAGTGCCTGGCTGACAATCACATAAGCCATAATCCAGCCTGGGTATCTTGGGGCAGTG  
 GAGAGCAAGGTCACCTACCCTGCTCCACCTCAGGTGCCCCCTACTCGTTACTCTCTATTCCAGACACA  
 TGCTGGCTGAGGAAGACTTTACCAGAGAGCCCGCAAGATCATCTGCACAAAGTTCTACAGGCCTGGG  
 CTTCAACATTGTAGGAGGAGAAGATGGAGAAGGCATTTTTGTTTCCTTCATCCTGGCGGGAGGCCAGCA  
 GACCTAAGTGGGAGTTGCGAAGGGGAGACCGGATCTTATCGGTAATGGAGTCAACCTGAGGAATGCTA  
 CCCACGAGCAAGCAGCGGCTGCTCTGAAACGGGCTGGCCAGTCAGTCACCATTGTGGCCAGTATAGACC  
 TGAAGAGTACAGTCGCTTGAATCCAAGATCCATGACTTGCAGGAAACAAATGATGAACAGCAGCATGAGT  
 TCTGGGTCTGGTCTCTCCGAACCAGTGAGAAGAGGTCCTTGTATGTCAGGGCCCTGTTTGATTATGATC  
 GGACTCGTGACAGCTGTCTACCAAGCCAGGACTCAGTTTCTCTTATGGTGACATTCTGCACGTCATTAA  
 CGCCTCTGATGATGAGTGGTGGCAAGCAAGGCTGGTACTCCTCATGGAGAGAGTGAACAGATCGGTGTG  
 ATCCCTAGTAAAAGAGGTTGAAAAGAAAGAGCGAGCTCGATTGAAAACGTGAAGTTCATGCCAGGA  
 CAGGGATGATTGAGTCTAATCGGACTTCCCTGGGTTAAGTGACGATTATTATGGAGCAAAGAACCCTGAA  
 AGGACAAGAGGATGCTATTTTGTATATGAGCCAGTGACACGACAAGAAATTCATATGCCAGGCCCTGTG  
 ATCATCTTGGGCCAATGAAGGACCGAGTCAACGATGACCTCATCTGAGTTCCCGCATAAATTTGGAT  
 CCTGTGTGCCACATACCACCCGGCTCGGCGTGATAACGAGGTAGATGGACAGGATTACCACTTTGTGGT  
 TTCCCGGAACAAATGGAGAAGGATATTCAGGACAACAAGTTCATTGAGGCGGGCCAGTTCAATGATAAT  
 CTCTATGGGACCAGCATCCAGTCTGTGCGGGCAGTTGCAGAGAGGGGCAAGCACTGCATCTTAGATGTCT  
 CCGGCAACGCCATAAAGAGACTGCAGCAAGCACAACCTTATCCATTGCCATTTTCATCAAGCCCAAGTC  
 CATTGAAGCACTTATGGAAATGAACCGACGGCAGACATACGAACAAGCAAATAAGATCTTTGATAAAGCC  
 ATGAAACTGGAGCAAGAATTTGGAGAATACTTTACAGCCATTGTACAGGGTGACTCACTGGAAGGATTT  
 ATAACAAAATCAAACAAATCATTGAGGACCAGTCTGGGCACTACATTTGGTCCCATCCCCTGAAAAC  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;MR210798 protein sequence

Red=Cloning site Green=Tags(s)

MHKHQHCCKCEPEYVTRLAALRRLEPPGYGDWQVPDPYGPSSGGNGASSGYGGYSSQTLPSQAGATPTPR  
TKAKLIPTGRDVGVPVPPKPVPGKSTPKLNGSGPGWWPECTCTNRDWYEQVNGSDGMFKYEEIVLERGNSG  
LGF SIAGGIDNPHVDDPGIFITKIIPGGAAAMDGRLGVNDCVLRVNEVDVSEVVHRAVEALKEAGPVV  
RLVRRRQPPPETIMEVNLLKGPGLGFSIAGGIGNQHIPGDNSIYITKIEGGAAQKDGRLQIGDRLLA  
VNNTNLQDVRHEEAVASLKNTSDMVYLKVAKPGSIHLNDMYAPPDYASTFTALADNHISHNSSLGYLGAV  
ESKVTPAPPQVPTRYSPIPRHMLAEEDFTREPRKIILHKGSTGLGFNIVGGEDGEGIFVSFILAGGPA  
DL SGELRRGDRILSVNGVNLRNATHEQAAAALKRAGQSVTIVAQYRPEEYSRFESKIHDLREQMMNSSMS  
SGSGSLRTSEKRSLYVRALFDYDRTRDCLPSQGLSFSYGDILHVINASDDEWWQARLVTPHGESEQIGV  
IPSKRVEKKERARKTVKFHARTGMIESNRDFPGLSDDYYGAKNLKGQEDAILS YEPVTRQEIH YARPV  
IILGPMKDRVNDLISEFPHKFGSCVPHTTRPRRDNEVDGQDYHFVVSREQMEKDIQDNKFI EAGQFNDN  
LYGTSIQSVRAVAERGKHCILDVSGNAIKRLQQAQLYPIAIFIKPKSIEALMEMNRRQTYEQANKIFDKA  
MKLEQEFGEYFTAIVQGSLEEIYNKIKQIIEDQSGHYIWWPSPEKL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC094368

ORF Size: 2451 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:** [BC094368](#), [AAH94368](#)

**RefSeq Size:** 4912 bp

**RefSeq ORF:** 2453 bp

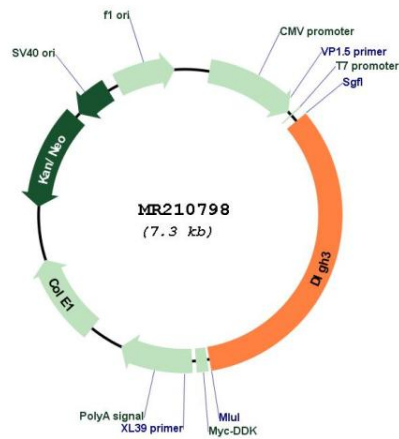
**Locus ID:** 53310

**Cytogenetics:** X C3

**MW:** 90.3 kDa

**Gene Summary:** Required for learning most likely through its role in synaptic plasticity following NMDA receptor signaling.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210798