

## Product datasheet for **RG234738**

### **DLGAP1 (NM\_001242763) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DLGAP1 (NM_001242763) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLGAP1
Synonyms:	DAP-1; DAP-1-ALPHA; DAP-1-BETA; DAP1; DLGAP1A; DLGAP1B; GKAP; SAPAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234738 representing NM\_001242763  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATTGAAGACATTA AAACTGTTTAACTCTCAGTTGAGATGTGGTTGGCTCTTATACATTTGGAATA  
 AAGCATTTATGGACATCTCAGGGTTCCACAAGATGAATGGACAGGGTACACCCACGAGGTAAAGATGA  
 TGAAATCCATGCCGAAGAATGCGGAGTGGCAGTTATATCAAGGCCATGGGGATGAAGACAGTGGAGAC  
 TCAGACACGAGTCTAAGCCTTCTCCAAAAGTTGCTGCGCGGAGAGAAAGCTATCTCAAGGCTACTCAGC  
 CATCCCTTACAGA ACTCACCACACTCAAATCTCCAATGAACACTCACCCAACTCCAGATCCGGAGTCA  
 TAGTTACCTGAGGGCAGTGAAGTCTCCATCAACCGAGCCTGGACAGCCTGGACCTGCAGGCTTG  
 CTCACATACCAAAGTCCGCTCCAGGAATGAGAGCTACATGCGAGCCATGAGCACCATCAGCCAGGTGA  
 GCGAGATGGAAGTGAACGGGCAGTTCGAGTCCGTGTGCGAGTCCGTGTTACGCGAGCTGGAGTCCGAGGC  
 CGTGGAAGCGCTGGACCTGCCATGCCCGCTGCTTCCGCATGCGGAGCCACAGCTATGTGCGGGCCATT  
 GAGAAAGGCTGCTCCAGGACGACGAGTGCCTGTCCTGAGGTCGTCTCGCCGCGCGCACACCACCA  
 CCGTTAGGACCATCCAGAGCAGCAGGGTGTCAAAAAGTGAAGTCTGCAGTTGAAGTGTATCTTGCAT  
 TACAACATATAAGAAGACACCACCTCCAGTCCCACCCAGA ACTACCACGAAAACCTTTCTATTTCTATCACA  
 GCCCAGAGTAGCAGAGTCAAGCCAGGATGCCTACATGGACGGACAGGGCCAGCGAGGAGATATTATCA  
 GCCAGTCTGGACTCAGCAACTCCACCGAGAGCCTGGACAGTATGAAGGCTCTGACAGCCGCCATCGAAGC  
 TGCAAACGCCAGATCCATGGCCCTGCCAGTCAACACATGGGCAATAA ACTGCCACCGTACCACCAGC  
 ACTACCATAGCCACCGTACCACGGAGGACAGGAAGAAGGACCCTTTAAGAAAAATCGATGCCTGTCTA  
 TCGGGATACAGGTGGATGATGCTGAAGAACCTGACAAAACAGGGGAGAATAAAGCACCCAGTAAGTTCCA  
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 CCGGACCCCTGGATTGACTCTACTGAAGACCTCTGGAGGCCGTGCAAAGGTCAGTGTGCCACCGGG  
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 GCGGGAAGAACGGGAAAACAACCTGCCGAAGACATTCTAGGAAAAATCCGAACCGCAGTGGCAGTGCC  
 CAACTTCTCATGGCCAGAAATTCTACCAGTTCAGAGAACTGTGTGAAGAAAACCTGAATCCTAATGCTC  
 ATCCAAGACCCACCTCCCAGGATTTGGCGGGTTTTGGGACATGCTGCAGTTGTCCATAGAAAATATTAG  
 TATGAAATTTGATGAACTTCATCAGTTAAAGGCCAATAATTGAAAACAGATGGATCCTCTTGACAAGAAG  
 GAGAGAAGGGCCCTCCTCCAGTGCCAAAGAAGCCGGCGAAGGGCCCCGCGCCGTGATCCGGGAGCGCT  
 CGCTGGAGAGCTCGCAGCGCCAGGAGGCCGCAAGCGCCTGATGGCCGCCAAGCGCGCCGCTCCGTCG  
 CCAGA ACTCGGCCACCGAGAGCGCCGAGAGCATCGAGATCTACATCCCCGAGGCGCAGACCCGGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234738 representing NM\_001242763  
 Red=Cloning site Green=Tags(s)

```
MDLKTLKLFNSQLRCGWLLYIWNKAFMAHLRVPQDEWTGYTPRGKDDEIPCRMRSGSYIKAMGDEDSGD
SDTSPKPSPKVAARRESYLKATQPSL TEL TTKLISNEHSPKLQIRSHSYLRVSEVSINRSLDSLDPAGL
LTSPKFRSRNESYMRAMSTISQVSEMEVNGQFESVCEVSFSELESQAVEALDLPMPGCFMRMRSHSYVRAI
EKGCSQDDECVSLRSSSPPTTTTIVRTIQSSTGVIKLSSAVEVSSCITTYKKTPPPVPPTTTKPFISIT
AQSTESAQDAYMDGQGQRGDIISQSGLSNSTESLDSMKAL TAAIEAANAQIHGPASQHMGNNTATVTTT
TTIATVTTEDRKKDHFKNRCLSIGIQVDDAEEDPKTGENKAPSKFQSVGVQVEEEKCFRRFTRNSVTT
AVQADLDFHDNLENSLESIEDNSCPGPMARQFSRDASTSTVSIQSGSNHYHACAADDDFDTFDPSILPP
PDPWIDSITEDPLEAVQRSVCHRDPGHWFLKLLQAERDRMEGWCQQMEREERENLPEDILGKIRTAVGSA
QLLMAQKFYQFRELCEENLNPNAHPRPTSQDLAGFDMLQLSIENISMKFDELHQLKANNWKQMDPLDKK
ERRAPPVPKPAKGPAPLIRERSLESSQRQEARKRLMAAKRAASVRQNSATESAESIEIYIPEAQTRL
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001242763

**ORF Size:** 2097 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\\_001242763.1](#), [NP\\_001229692.1](#)

**RefSeq Size:** 5328 bp

**RefSeq ORF:** 2100 bp

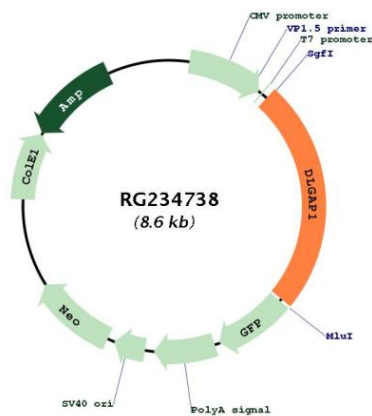
**Locus ID:** 9229

**UniProt ID:** [O14490](#)

**Cytogenetics:** 18p11.31

**Gene Summary:** Part of the postsynaptic scaffold in neuronal cells.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG234738