

Product datasheet for **RC221722**

DLGAP1 (NM_004746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLGAP1 (NM_004746) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DLGAP1
Synonyms:	DAP-1; DAP-1-ALPHA; DAP-1-BETA; DAP1; DLGAP1A; DLGAP1B; GKAP; SAPAP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC221722 representing NM_004746
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGGGCTATCAGGCAGCCGACCCATCACCACGGGGTACCTGCGACTCGGCTGTGACTCGCTGT
 CGCACCACTCCGACCGCAAGCCCTACCTGCTGAGCCAGTGGAGCACCACCCGACAGACCACCCATACTA
 CACCCAGCGAACTCCTTCCAGGCTGAGTGCCTGGGCCCTTCAGCGACCCGCTGGCCAGCAGCACCTTC
 CCCCAGGCACTACACCTCGCAGCAAGAGCTGAAGGACGAGTGTGCCCTGGTGCCTCCGACCCCTGGCCA
 CCAAGGCAACCGCATCCCCGCAACCTGCTGGACAGTTCGAGCGGCAGCTGCCACTCAGCCGCGATGG
 CTATCACACCCTGCAGTACAAGCGCACGGCCGTGGAGCACCAGCAGCAGCCCCGGCCGATCCGCCAC
 CTGGTGCCTCGGTCCAGAAGCTCTTACCAAGTGCCTCCCTGGAGGGCCGTCGAAGGGCAGCGTCA
 ACGGGGGCAAGGCCAGCCCTGACGAGGCGCAGGCGGCGCTATGGCAAACGAGCAAGAGCAAGGAGCG
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 AGTACTTCTGGAGGCCTACAACACCATCAGCGAGCAGGCGGTGAAGGCCTCCCGGAGCAACAACGACGT
 CAAGTGTCTCACCTGCGCAACCTGCCGGTCCAGCTGGACACCCCGCTGCTGAAGAAGAGCGCTGGTCC
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 ATATAAGAAGACACCACCTCCAGTCCCACCCAGAACTACCACGAAACCTTTCATTTCTATCAGCCAG
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 CAGGCCGACCTGGACTTCCATGATAATCTGGAAAATCTCTGGAATCTATAGAGGACAATTCTGTCTCTG
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 AGAGCTCGCAGCGCCAGGAGCCCGCAAGCGCCTGATGGCCGCAAGCGCCCGCTCCGTCGCCAGAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221722 representing NM_004746
 Red=Cloning site Green=Tags(s)

MKGLSGSRSHHHGVTCD SACSLSHHS DRKPYLLSPVEHHPADHPYQTQRNSFQAECVGPFS DPLASSTF
 PRRHYTSQQELKDECALVPRTLATKANRIPANLLDQFERQLPLSRDGYHTLQYKRTAVEHRSDSPGRIRH
 LVHSVQKLF TKSHSLEGPSKGSVNGGKASPDEAQAARYGKR SKKERRAEPKARPSTSPGWSSDDNLDG
 DMCIYHAPSGVMTMGRC PDRSASQYFLEAYNTISEQAVKASR SNNDVKCSTCANLPVSLDTPLLKKS AW
 STLTVSRAREVYQKASV NMDQAMVKSESCQQRSCQYLQVPQDEWTGYTPRGKDDEIPCRMRSGSYIKA
 MGDEDSGSDSTSPKSPKVAARRESYLKATQPSLTEL TTKLISNEHSPKLQIRSHSYLRVSEVSINRSL
 DSLDPAGLLTSPKFRSRNESYMRAMSTISQVSEMEVNGQFESVCE SVFSELESQAVEALDLPMPGCFMR
 SHSYVRAIEKGC SQDDECVSLRSSPRTTTTTVRTIQSSTVSSCITTYKKT PPPVPPRTTTKPFISIT AQ
 SSTE SAQDAYMDGQQRGDIISQ SGLSNSTESLDSMKAL TAAIEAANAQIHGPASQHMGNNTATVTTTT
 IATVTTEDRKKDHF KKNRCLSIGIQVDDAEEPDKTGENKAPSKFQSVGVQVEEEKCFRRF TRSNSVTTAV
 QADLDFHDNLENSLESIEDNSCPGPMARQF SRDASTSTVSIQ GSGNHYHACAADDDFD TDFDPSILPPP
 PWIDSITEDPLEAVQRSVCHR DGHWFLKLLQAERDRMEGW CQOMEREERENNL PEDILGKIRTAVGSAQL
 LMAQKFYQFRELCEENL NPNAPRPTSQDLAGFDMLQLS IENISMKFDELHQLKANNWKQMDPLDKKER
 RAPPVPKPKPAKGPAPLIRERSLESSQRQEARKRLMAAKRAASVRQNSATESAESIEIYIPEAQT RL

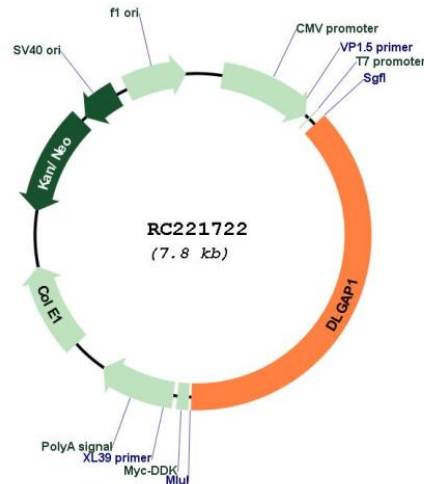
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_004746

ORF Size: 2931 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_004746.4](#)

RefSeq Size:	6628 bp
RefSeq ORF:	2934 bp
Locus ID:	9229
UniProt ID:	<u>O14490</u>
Cytogenetics:	18p11.31
Domains:	GKAP
MW:	108.9 kDa
Gene Summary:	Part of the postsynaptic scaffold in neuronal cells.[UniProtKB/Swiss-Prot Function]