

Product datasheet for **SC117151**

DLGAP1 (NM_004746) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLGAP1 (NM_004746) Human Untagged Clone
Tag:	Tag Free
Symbol:	DLGAP1
Synonyms:	DAP-1; DAP-1-ALPHA; DAP-1-BETA; DAP1; DLGAP1A; DLGAP1B; GKAP; SAPAP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004746, the custom clone sequence may differ by one or more nucleotides

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ATGAAAGGGCTATCAGGCAGCCGACGCCATCACCACGGGGTACCTGCGACTCGGCCTGTGACTCGCTGT
CGCACCACTCCGACCCGAAGCCCTACCTGCTGAGCCCAGTGGAGCACCACCCCGCAGACCACCCATACTA
CACCCAGCGGAACCTCTCCAGGCTGAGTGCCTGGGCCCTTCAGCGACCCGCTGGCCAGCAGCACCTTC
CCCCGCAGGCACTACACCTCGCAGCAAGAGCTGAAGGACGAGTGTGCCCTGGTGCCCGCACCTGGCCA
CCAAGGCGAACCGCATCCCCGCCAACCTGCTGGACCAGTTCGAGCGGCAGCTGCCACTCAGCCGCGATGG
CTATCACACCCTGCAGTACAAGCGCACGGCCGTGGAGCACCGCAGCGACAGCCCCGGCCGCATCCGCCAC
CTGGTGCCTCGGTCCAGAAGCTCTTACCAAGTCGCACTCCCTGGAGGGGCCGTCCAAGGGCAGCGTCA
ACGGGGGCAAGGCCAGCCCTGACGAGGCGCAGGCGGCGCTATGGCAAACGCAGCAAGAGCAAGGAGCG
GCGCGCGAGCCCAAGGCCCGCCAGCACCTCCCCGGGCTGGTGGAGCTCGGACGACAACCTGGATGGT
GACATGTGCATCTACCACGCCCCCTCGGCGTGATGACCATGGGCAGGTGCCCGACCGCTCGGCCCTCAC
AGTACTTCTGGAGGCCACAACACCATCAGCGAGCAGGCGGTGAAGGCCTCCCGGAGCAACAACGACGT
CAAGTGCTCCACCTGCGCAACCTGCCGGTCCAGCTGGACACCCCGCTGCTGAAGAAGAGCGCCTGGTCC
TCCACGCTCACCGTGAGCCGGGCCGGGAGGTTTACCAGAAGGCCTCGGTGAACATGGACCAGGCCATGG
TGAAGTCCGAGTCGTGTGAGCAAGAAGCCTCTGCCAGTACCTGCAGGTTCCACAAGATGAATGGACAGG
GTACACCCACGAGGTAAGATGATGAAATTCATGCCGAAGAATGCGGAGTGGCAGTTATATCAAGGCC
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AAAGCTATCTCAAGGCTACTCAGCCATCCCTTACAGAACTCACCACACTCAAAATCTCCAATGAACACTC
ACCCAACTCCAGATCCGGAGTCATAGTTACCTGAGGGCAGTGAAGTCTCCATCAACCGGAGCCCTG
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CCATGAGCAACATCAGCCAGGTGAGCGAGATGGAAGTGAACGGGAGTTGAGTCCGTGTGCGAGTCCGT
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AGCCACAGCTATGTGCGGGCCATTGAGAAAAGGCTGCTCCCAGGACGACGAGTGCCTGTCCCTGAGGTCGT
CCTCGCCCGCGCACCACCACCACCGTTAGGACCATCCAGAGCAGCACGGTGTGATCTTGCATTACAAC
ATATAAGAAGACACCACCTCCAGTCCCACCCAGAACTACCACGAAACCTTTTATTCTATCACAGCCAG
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CTGGACTCAGCAACTCCACCGAGAGCCTGGACAGTATGAAGGCTCTGACAGCCGCATCGAAGCTGCAA
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ATAGCCACCGTCAACCAGGAGGACAGGAAGAAGGACCCTTTAAGAAAAATCGATGCCTGTCTATCGGGA
TACAGGTGGATGATGCTGAAGAACCTGACAAAACAGGGGAGAATAAAGCACCCAGTAAGTCCAGTCCGT
GGGAGTGAAGTAGAAGAAGAGAAGTGCTTCCGCAAGTTCACCTCGATCCAACAGTGTGACGACAGCAGTA
CAGGCCGACCTGGACTTCCATGATAATCTGAAAAATTCTTGAAATCTATAGAGGACAATTCGTGTCCCTG
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CCCTGGATTGACTCTACTGAAGACCCTCTGGAGCCGTGCAAAGTCAAGTGTGCCACCGGGATGGCC
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AGAACGGGAAAAACAACCTGCCCGAAGACATTCTAGGAAAAATCCGAACCGCAGTGGGCAGTGCCCAACTT
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CTCGGCCACCGAGAGCGCCGAGAGCATCGAGATCTACATCCCCGAGGCGCAGACCCGGCTCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004746 unedited
 TCATATAGGCGGCGCGAATTCGGCACGAGGGCTAAATGCTCTCAGCTGCACTATACCAA
 ATCAAAGCTGAGATGAATAATGAACTTAATTTTCCATAAAGACATTCTGTTTGGCATTCC
 AGCTAATAAGGTTCCACAAGATGAATGGACAGGGTACACCCACGAGGTAAGATGATGA
 AATTCATGCCGAAGAATGCCGAGTGGCAGTTATCAAGGCCATGGGGGATGAAGACAG
 TGGAGACTCAGACACGAGTCCTAAGCCTTCTCCAAAAGTTGCTGCGCGGAGAGAAAAGCTA
 TCTCAAGGCTACTCAGCCATCCCTTACAGAAGTACCACACTCAAATCTCCAATGAACA
 CTCACCCAAACTCCAGATCCGGAGTCATAGTTACCTGAGGGCAGTGAGTGAAGTCTCCAT
 CAACCGGAGCCTGGACAGCCTGGACCCTGCAGGCTTGCTCACATACCAAAGTCCGCTC
 CAGGAATGAGAGCTACATGCGAGCCATGAGCACCATCAGCCAGGTGAGCGAGATGGAAGT
 GAACGGGCAGTTCGAGTCCGTGTGCGAAGTCCGTGTTACGCGAGCTGGAGTCGACGGCCG
 TGGAAAGCGCTGACCTGCCCATGCCCGGCTGCTTNCGCATGCGGAGCCACAGCTATGTGC
 GGGCCATTGAGAAAGGCTGCTCCAGACGACGAGTGCCTTGGAGTTCGTTGAGGTCGTTG
 GCGCGGGCACCACAACACCGTTAGGACTTCAGACAGNAACGGGGTTCATCTGCATTACAC
 ATTTANGAAAAACCAACCTCCACGTCCACCAGAACTACCAGAAACCTTTATTTTTATACA
 GCCCAAGTAACCAAAATGCCAGATGCTCATTGACGAACAGGCCCCAGGGAATTTTT
 TACCCCTTTTGACTTAACTCCCGAAGCTGACANTTTAAAAGGTTTTAAANCCCATTA
 ATGGAAACCAATTCTGGGCTGCCGAAAATGGGGAAAATTGCCGGCCACAACATCATATC
 CGCCCGGGGAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004746 unedited
 NAACTTAGCTATGGACCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTACTGGAAAACCTTATGGTATATTTTTTAGACTTGAACAACAGTAA
 TTTCTTTATTACTATATTATGAAATGATTATCAAAGTCAGTTATTTTTCAGGGCATCCT
 ATTTTTCTTGAAAACACATCCTAGGGGTGTAAGGAAAGTTGAACTCTTGTCTATGGATTC
 ATGCACTGAAGATGTCATTTATTTTAGTTTAAAAAGCAAAATGGAGGCAGTTCCTTCCAG
 TGACTAAAATGGTTAACTTAAAGTTTAAATTAACAAAAAAGCCACATTTCCATTTTCCA
 ATTCACAAAGACAGGTTTTTCTTTAAAAATATGCCTGAAACATATTACAGATAATATCCC
 AAATGATTACTATGTAACATTGTCATTACAATGAAATTAATATGATATCAGCTCCATTT
 CACATTGTAACAGCAGGACTGAATGCAAAAGCCTATTTAACTGTCCAGTGTTTGTGCA
 GGTTTTTAAATGAACCATACAAAATCTACATTGTTCTACCTTCTTGCAAGAGGATCCAT
 CTGTTTCCAATTATTGGCCTTAACTGATGAAGTTCATCAAATCCATACTAATATTTTC
 TATGGACAACAGCATGTCCCAAAACCCGCCAAATCCTGGGAAGTGGGGTCTGGGAT
 GAGCATTAGGATTTAGGGTTTTCTTAACACAGCTCTCTGAACTGGGACAATTTCTGGGCC
 ATGGAGAATTGGGCACTGCCACTGGCGGTTGGATTTTTCTAAAGGTCTTCGGCAGGTT
 GTTTTCCCGTTTTCCCGTCCATTTGGTGACCCACCCCTCTGGCGGCTCGCTTTGCCTG
 G

Restriction Sites:

NotI-NotI

ACCN:

NM_004746

Insert Size:

2440 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](#)

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_004746.1](#), [NP_004737.1](#)

RefSeq Size: 6628 bp

RefSeq ORF: 1884 bp

Locus ID: 9229

UniProt ID: [O14490](#)

Cytogenetics: 18p11.31

Domains: GKAP

Gene Summary: Part of the postsynaptic scaffold in neuronal cells.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (1) represents the longest variant and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.