

Product datasheet for **RC205476**

DAGLB (NM_139179) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAGLB (NM_139179) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAGLB
Synonyms:	DAGLBETA; KCCR13L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC205476 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGGATGGTACTCTTCGGCCGGCGCTGGGCCATCGCCAGCGACGACTTGGTCTTCCAGGGTTCT
 TCGAGCTGGTCGTGCGAGTGCTGTGGTGGATTGGCATTCTGACGTTGTATCTCATGCACAGAGGAAAGCT
 GGACTGTGCTGGTGGAGCCTTGCTCAGCAGTTACTTGATCGTCCTCATGATTCTCTGGCAGTTGTCATA
 TGTAAGCTGTGTCAGCCATCATGTGTGTCAGCATGAGAGGAACGATTTGTAACCTGGACCGCGGAAGTCTA
 TGTCTAAGCTGCTTACATCCGCTGGCGCTGTTTTTCCAGAGATGGTCTGGCCTCTCTGGGGCTGC
 CTGGGTGGCAGATGGTGTTCAGTGCACAGGACAGTTGTAACCGCATCATCGCAACCGTCGTGGTCAGT
 TGGATCATCATCGCTGCCACAGTGGTTCCATTATCATTGTCTTTGACCCTCTGGGGGAAAAATGGCTC
 CATATTCCTCTGCCGGCCCCAGCCACCTGGATAGTCATGATTCAAGCCAGTTACTTAATGGCCTCAAGAC
 AGCAGCTACAAGCGTGTGGAAACCAGAATCAAGCTCTTGTGCTGTTGCATTGGGAAAGACGACCATACT
 CGGGTTGCTTTTTCGAGTACGGCAGAGCTTTTCTCAACCTACTTTTCAGACACAGATCTGGTGCCACGG
 ACATTGCGGGCGGCCCTCGCCCTGCTTCATCAGCAACAGGACAATATCAGGAACAACCAAGAGCCTGCCCA
 GGTGGTCTGCCATGCCCCAGGGAGCTCCAGGAAGCTGATCTGGATGCAGAATTAGAAAAGTCCATCAT
 TACATGCAGTTTGCAGCAGCGCCATATGGGTGGCCCTTACATCTACAGAAACCCCTCACGGGGCTGT
 GCAGGATTGGTGGTACTGCTGCAGAAGCAGAACCACAGACTATGACTTGGTCCGAGGGGATCAGCTCAA
 CTGTCACTTCGGCTCCATCCTGCACACCACAGGGCTGCAGTACAGGGACTTACCCACGTGAGCTCCAT
 GACAAGGTTTACGAGCTGCCGTTTTAGTGGCTCTGGATCACAGGAAAGAGTCTGTTGTGGTCTGCTGTA
 GGGGACCATGTCTCTGCAGGATGTCTTACGGACCTGCAGCGGAGAGTGAGGTGCTGGACGTGGAGTG
 TGAGGTGCAGGACCGCCTGGCACACAAGGGTATTTCTCAAGCTGCCAGATACGTTTACCAACGACTCATC
 AACGACGGGATTTTGAAGCAAGCCTTACGATTGCTCCTGAGTACCGGCTGGTATAGTGGCCACAGCC
 TCGGGGAGGGCGGCCCTGCTGGCCACCATGCTCAGAGCCGCTACCCGACGGTACAGTGTCTACGC
 CTTCTCCCAACCCGGGGCTGTGGAGCAAAGCTCTGCAGGAATATTCTCAGAGCTTTCATCGTGTCACTC
 GTCCTGGGAAGGATGTGATTCCAGGCTCAGTGTGACCAACTTGAAGATCTGAAGAGAAGAATCTTGC
 GAGTGGTCGCGCACTGCAATAAACCAGTACAAGATCTTGTGACGGTTTGTGGTACGAACTGTTTGG
 AGGAAACCCCAACTTGCCCAAGGAGCTGGACGGGGCGACCAGGAAGTCTGACACAGCCTCTTCTG
 GGGGAGCAGGCCTACTGACGCGCTGGTCCCGGCTACAGCTTCTCCAGCGACTCCCACTGGACTCTT
 CTCCCAAGTACCCCTCTCTACCTCCCGCAGGATCATCCACCTGCAGGAGGAGGGCGCCTCGGGGG
 GTTTGGCTGTGCTCTGCTGCTCACTATAGCGCAAGTGGTCACACGAAGCGGAATTCAGAAAATACTC
 ATAGGTCCGAAGATGCTCACCGACCACATGCCAGACATCTGATGCGGGCCTTGGACAGCGTGGTCTCCG
 ACAGAGCGCCTGCGTCTCTGTCCAGCAGAGGGGTCTCCAGTGTGGACGTGGCC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205476 protein sequence
 Red=Cloning site Green=Tags(s)

MPGMVLFGRRWAIASDDLVPFGFFELVVRVLWWIGILTYLMHRGKLD CAGGALLSSYLIVLMILLAVVI
 CTVSAIMCVSMRGTICNPGPRKSMKLLYIRLALFFPEMVWASLGAADVADGVQCDRTVVNGIATVVVVS
 WIIIAATVVSIIIVFDPLGGKMAPYSSAGPSHLDSHDSSQLLNGLKAATSVWETRIKLLCCCIGKDDHT
 RVAFSSTAELFSTYFSDTDLVPSDIAAGLALLHQQQDNIRNNQEP AQVVCHAPGSSQEADLDAELENCHH
 YMQFAAAAYGWPLYIYRNPLTGLCRIGGDCCRSRTTDYDLVGGDQLNCHFSGILHTTGLQYRDFIHVSFH
 DKVYELPFLVALDHRKESVVAVRGTMSLQDVL TDL SAESEVLDVECEVQDRLAHKGISQAARYVYQRLI
 NDGILSQAFSIAPEYRLVIVGHSLGGGAAALLATMLRAAYPQVRCYAFSPPRGLWSKALQEYSQSFIVSL
 VLGKDVIPRLSVTNLEDLKRRI RLVVAHCNKPKYKILLHGLWYELFGGNPNLPKELDGGDQEVLTQPLL
 GEQSLLTRWSPAYSFSSDSPLDSSPKYPPLYPPGRIIHLQEEGASGRFGCCSAAHYSAKWSHEAEFSKIL
 IGPKMLTDHMPDILMRALDSVSDRAACVSCPARGVSSVDVA

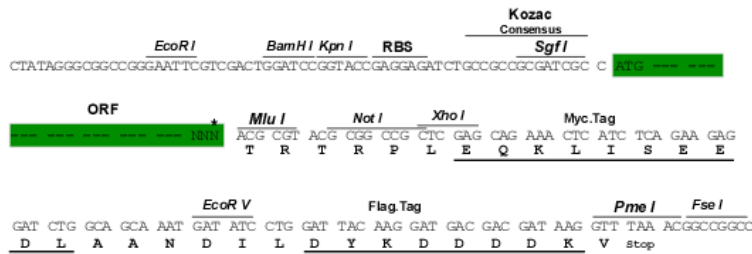
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6804_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_139179

ORF Size: 2016 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_139179.4](#)

RefSeq Size: 2910 bp

RefSeq ORF: 2019 bp

Locus ID: 221955

UniProt ID: [Q8NCG7](#)

Cytogenetics: 7p22.1

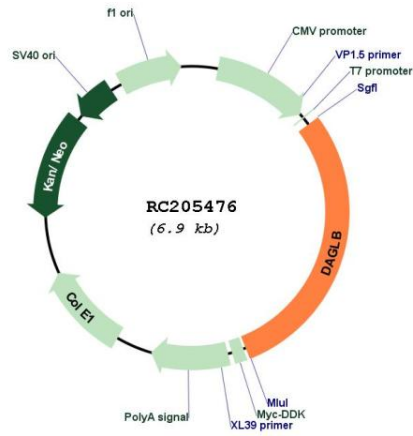
Domains: Lipase_3

Protein Families: Transmembrane

MW: 73.8 kDa

Gene Summary: Catalyzes the hydrolysis of diacylglycerol (DAG) to 2-arachidonoyl-glycerol (2-AG), the most abundant endocannabinoid in tissues. Required for axonal growth during development and for retrograde synaptic signaling at mature synapses.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205476