

Product datasheet for **SC120571**

DAGLB (NM_139179) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAGLB (NM_139179) Human Untagged Clone
Tag:	Tag Free
Symbol:	DAGLB
Synonyms:	DAGLBETA; KCCR13L
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_139179, the custom clone sequence may differ by one or more nucleotides

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ATGCCGGGATGGTACTCTTCGGCCGGCGCTGGGCCATCGCCAGCGACGACTTGGTCTTCCCAGGGTTCT
TCGAGCTGGTTCGTGCGAGTGTCTGGTGGATTGGCATTCTGACGTTGTATCTCATGCACAGAGGAAAGCT
GGACTGTGCTGGTGGAGCCTTGTCTCAGCAGTACTTGTATCGTCCATGATTCTCTGGCAGTTGTCATA
TGTAAGTGTGTGAGCCATCATGTGTGTGAGCAGTGTGAGGAAACGATTGTAAACCCTGGACCCGGAAGTCTA
TGCTAAGCTGCTTTACATCCGCTGGCCTGTTTTTCCAGAGATGGTCTGGGCCTCTCTGGGGCTGC
CTGGGTGGCAGATGGTGTTCAGTGCACAGGACAGTTGTAACCGCATCATCGCAACCGTCTGGTCAGT
TGGATCATCATCGCTGCCACAGTGGTTCCATTATCATTGTCTTTGACCCTCTGGGGGAAAAATGGCTC
CATATTCTCTGCCGGCCCCAGCCACCTGGATAGTCATGATTCAAGCCAGTACTTAATGGCCTCAAGAC
AGCAGCTACAAGCGTGTGGAAACAGAATCAAGCTCTGTGCTGTTGCATTGGGAAAGACGACCATACT
CGGTTGCTTTTTCGAGTACGGCAGAGCTTTTCTCAACCTACTTTTCAGACACAGATCTGGTCCCAGCG
ACATTGCGGGGGCCTCGCCCTGCTTCATCAGCAACAGGACAATATCAGGAACAACCAAGAGCCTGCCCA
GGTGGTCTGCCATGCCCCAGGGAGCTCCAGGAAGCTGATCTGGATGCAGAAATAGAAAACTGCCATCAT
TACATGCAGTTTGCAGCAGCGGCCATGGGTGGCCCTCTACATCTACAGAAACCCCTCACGGGGCTGT
GCAGGATTGGTGGTACTGCTGCAGAAGCAGAACCACAGACTATGACTTGGTGGAGGGCATCAGCTCAA
CTGTCACTTCGGCTCCATCCTGCACACCACAGGGCTGCAGTACAGGGACTTATCCACGTGAGTCCAT
GACAAGTTTTACGAGTGCCTTTTTAGTGGCTCTGGATCACAGGAAAGAGTCTGTTGTGGTTCGCTGTGA
GGGGGACCATGTCTCTGCAGGATGTCTTACGGACCTGTGAGCGGAGAGTGGGTGCTGGACGTGGAGTG
TGAGGTGCAGGACCGCTGGCACACAAGGGTATTTCTCAAGTGCAGATACGTTTACCAACGACTCATC
AACGACGGGATTTGAGCAAGCCTTTCAGCATTGCTCTGAGTACCGGCTGGTCAATGTTGGCCACAGCC
TCGGGGCGGGGGCGCCCTGCTGGCCACCATGCTCAGAGCCGCTACCCGAGGTGAGGTGCTACGC
CTTCTCCCCACCCGGGGCTGTGGAGCAAAGCTCTGCAGGAATATTCTCAGAGTTCATCGTGTCACTC
GTCCTGGGAAGGATGTGATTCCAGGCTCAGTGTGACCAACTTGAAGATCTGAAGAGAAGAATCTTGC
GAGTGGTGCAGCACTGCAATAAACCCAAGTACAAGATCTTGTGCACGGTTTGGTACGAACTGTTTGG
AGGAAACCCCAACAACTTGGCCACGGAGCTGGACGGGGGGCAGGAAAGTCTGACACAGCCTCTCTG
GGGAGCAGAGCCTACTGACGCGCTGGTCCCCGGCCTACAGTCTTCCAGCGACTCCCCTGGACTCTT
CTCCAAGTACCCCTCTTACCCTCCGGCAGGATCATCCACCTGCAGGAGGAGGGCGCTCGGGGGC
GTTTGGTCTGCTGCTGCTCACTATAGCGCAAGTGGTACACGAAGCGGAATTCAGCAAAATACTC
ATAGGTCCGAAGATGCTACCGACCACATGCCAGACATCCTGATGCGGGCCTGGACAGCGTGGTCTCCG
ACAGAGCGGCCTGCGTCTCTGTCCAGCACAAGGGGTCTCCAGTGTGGACGTGGCCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_139179 unedited

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NGGTTACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGAAGCTACGG
GACCTTCGCCATGCCGGGATGGTACTCTTCGGCCGGCGCTGGCCATCGCCAGCGACGA
CTTGGTCTTCCCAGGTTCTTCGAGCTGGTTCGTGCGAGTGTGTTGGTGGATTGGCATTCT
GACGTTGTATCTCATGCACAGAGGAAAGCTGGACTGTGCTGGTGGAGCCTTGCTCAGCAG
TTACTTGATCGTCCATGATTCTCCTGGCAGTTGTATGACTGTGACAGCCATCAT
GTGTGTCAGCATGAGAGGAACGATTTGTAACCCTGGACCGGGAAGTCTATGTCTAAGCT
GCTTTACATCCGCTGGCCTGTTTTTCCAGAGATGGTCTGGGCCTCTCTGGGGCTGC
CTGGGTGGCAGATGGTGTTCAGTGCACAGGACAGTTGTAACCGCATCATCGCAACCGT
CGTGGTCAAGTGGATCATCATCGCTGCCACAGTGGTTCCATTATCATTGTCTTTGACC
TCTTGGGGGAAAAATGGCTCCATATTCTCTGCGGCCCCAGCCACCTGGATAGTATGA
TTCAAGCCAGTTACTTAATGGCCTCAAGACAGCAGCTACAAGCGTGTGGGAAACAGAAT
CAAGCTCTTGTGCTGTTGCATTGNGAAAGACGACCATACTCGGGTTGCTTTTTCGAGTAC
GGCAGAGCTTTTCTCAACCTACTTTTCAGACACAGATCTGGTGGCCAGCGACATTGCGGC
GGGCCTCGCCCTGCTTNCATCAGCACAGGACAATATCANGAAACAACCAAGAGCCTGCCCC
AGTGGTCTGCCATGCCCCAGGNNAGCTCCAGAAGCTGATCTGGATGCAGAAATTAANAC
TGNATCATTACATGCAGTTTGCAGCAGCGGCCATGGGNTGCCCNCTACATCTACG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_139179 unedited CCCGCCATTTTACTTGNACGCGCCCGCTTCTNCTANGATCGTATTTTTTTTTTTTTTTTTTTT ATCGGACTGCGCTTTATGTTTCAACTCCGAACCCTGGCCGACCCCAAAGCCAGAAGAGTA GCAAGAATTCAATCAGCAACTCTGATGTGGACAAACAACCTGGGCAGTGGGAATAGGCAG TTGGGGGGCTGTGGCTCGGCGGGGCGGGGGCTCCACTTACTTTCCCGATCGGGTTTCGT CTTTCATCCCCAGCCAGAGCCAGGGCTGCCCTTGGTGACGCCAGGAGAAAAACCCAGCC CGCACCCCTCACCACAGTCCATTTGTACATCCAGGAAGCCAGTTTGAAAAACAACCCAC GCCTGTAACACTGAGTTGGATGAAAAGAGCTGCCTTGGGGGTGGGAGGCTAAGGAACTGTT CACGGTCTTCTGGGTGGGCCCTGGATTCCCGCACTTCTGGAGCAGTCTCAGACGCCAA GGGATCCATCCACGGGCCAGGGCTTCCCGAGGCTGTCTCCACGGTCGCTGGGTCTCAGGA GTCGTCTATCACCTGAGCGTGTCTGCTACTTCTGCTACCATTATGGCCACAATGACTTC CCATAAECTTAAGTCATTGAGACCATGGAATTCTGTTCCCATCCGATTCTGTGATGGA CATTTCGTGTTTTGGCGTCATGGAACTCCTCGGATGGTAAGTCAGTTTAAGGACAAAAG CGTGAGTCCATCGTTCTGGGACAGTTTCCAGTGGCCCTGGTCAGGCCACGTCCACTG GAGACCCCTCGTCTGGACAGGAGACGCAAGCCGCTCTGTGGAGACCACGCTGTCCAAG GCCCGCATCANGATGTCTGGCATGTGGTCTGTA
Restriction Sites:	NotI-NotI
ACCN:	NM_139179
Insert Size:	1300 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_139179.1, NP_631918.1</u>
RefSeq Size:	2863 bp
RefSeq ORF:	2019 bp
Locus ID:	221955
UniProt ID:	<u>Q8NCG7</u>
Cytogenetics:	7p22.1
Domains:	Lipase_3
Protein Families:	Transmembrane

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).