

Product datasheet for **RG226682**

DAGLB (NM_001142936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAGLB (NM_001142936) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAGLB
Synonyms:	DAGLBETA; KCCR13L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226682 representing NM_001142936
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGGATGGTACTCTTCGGCCGGCGCTGGGCCATCGCCAGCGACGACTTGGTCTTCCAGGGTTCT
 TCGAGCTGGTCGTGCGAGTGCTGTGGTGGATTGGCATTCTGACGTTGATCTCATGCACAGAGGAAAGCT
 GGACTGTGCTGGTGGAGCCTTGCTCAGCAGTTACTTGATCGTCCTCATGATTCTCTGGCAGTTGTCATA
 TGTACTGTGTCAGCCATCATGTGTGTCAGCATGAGAGGAACGATTTGTAACCTGGACCGCGGAAGTCTA
 TGTCTAAGCTGCTTACATCCGCCTGGCGCTGTTTTTCCAGAGATGGTCTGGGCCTCTCTGGGGCTGC
 CTGGGTGGCAGATGGTGTTCAGTGCACAGGACAGTTGTAACCGCATCATCGCAACCGTCTGGTCAAG
 ACACAGATCTGGTCCCAGCGACATTGCGGCGGGCCTCGCCCTGCTTCATCAGCAACAGGACAATATCAG
 GAACAACCAAGAGCCTGCCAGGTGGTCTGCCATGCCCCAGGGAGCTCCCAGCTGCAGAAGCAGAACCAC
 AGACTATGACTTGGTCGGAGCGCATCAGCTCAACTGTCACCTCGGCTCCATCCTGCACACCACAGGGCTG
 CAGTACAGGGACTTCATCCACGTGAGCTCCATGACAAGTTTACGAGCTGCCGTTTTAGTGGCTCTGG
 ATCACAGGAAAGAGTCTGTTGTGGTCTGAGGGGGACCATGTCTCTGCAGGATGTCTTACGGACCT
 GTCAGCGGAGAGTGAGGTGCTGGACGTGGAGTGTGAGGTGCAGGACCGCCTGGCACAAGGGTATTTCT
 CAAGCTGCCAGATACGTTTACCAACGACTCATCAACGACGGGATTTTGGAGCAAGCCTTACGATTGCTC
 CTGAGTACCGGCTGGTATAGTGGGCCACAGCCTCGGGGGCGGGCGGCCCTGCTGGCCACCATGCT
 CAGAGCCGCTACCCGCAAGTCAGGTGCTACGCCTTCTCCCCACCCGGGGCTGTGGAGCAAAGCTCTG
 CAGGAATATTCTCAGAGCTTTCATCGTCTACTCGTCTGGGGAAGGATGTGATCCAGGCTCAGTGTGA
 CCAACTTGAAGATCTGAAGAGAAGAATCTGCGAGTGGTCCGCACTGCAATAAACCCAAGTACAAGT
 CTTGCTGCACGGTTTGTGGTACGAAGTGTGGAGGAAACCCCAACAATTGCCACGGAGCTGGACGGG
 GCGACACAGGAAGTCTGACACAGCCTCTCTGGGGAGCAGAGCCTACTGACGCCTGGTCCCCGGCCT
 ACAGCTTCTCCAGCGACTCCCCACTGGACTCTTCTCCAAGTACCCCTCTCTACCCTCCCGCAGGAT
 CATCCACCTGCAGGAGGAGGGCGCCTCGGGCGGTTTGGTGTGCTGCTGCTGCTGCTACTATAGCGCAA
 TGGTCCACAGCAAGCGGAATTCAGCAAAATACTCATAGGTCCGAAGATGCTCACCGACCACATGCCAGACA
 TCCTGATGCGGGCCTGGACAGCGTGGTCTCCGACAGAGCGGCCCTGCGTCTCTGTCAGCACAGGGGT
 CTCAGTGTGGACGTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226682 representing NM_001142936
 Red=Cloning site Green=Tags(s)

MPGMVLFGRRWAIASDDLVPFGFELVVRVLWWIGILTLYLMHRGKLDLCAGGALLSSYLIVLMILLAVVI
 CTVSAIMCVSMRGTICNPGPRKSMSKLLYIRLALFFPEMVWASLGAAWVADGVQCDRTVNGIATVVVR
 TQIWCATLRRASPCFISNRTISGTTKSLPRWSAMPQGAPSCRSRTTDYDLVGGDQLNCHFSGILHTTGL
 QYRDFIHVSFHDKVYELPFLVALDHRKESVVVAVRGTMQLQDVLTDLSAESEVLDVECEVQDRLAHKGIS
 QAARYVYQRLINDGILSQAFAPEYRLVIVGHSLLGGAAALLATMLRAAYPQVRCYAFSPRGLWSKAL
 QEYSQSFIVSLVLGKDVIPRLSVTNLEDLKRRILRVVAHCNPKYKILLHGLWYELFGGNPNLPTLDG
 GDQEVLTQPLLGEQSLTRWSPAYSFSSDPLDSSPKYPLYPYGRGRIIHLQEEGASGRFGCCSAHYSK
 WSHEAEFSKILIGPKMLTDHMPDILMRALDSVSDRAACVSCPAQGVSSVDVA

TRTRPLE - GFP Tag - V

Restriction Sites:

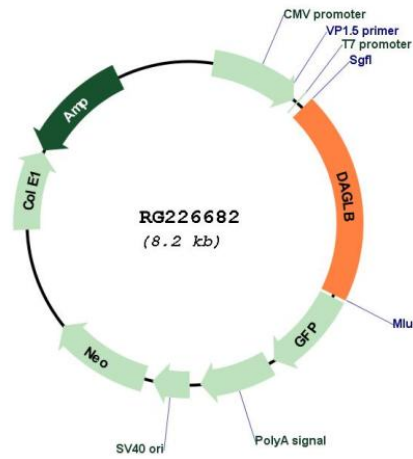
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001142936
ORF Size:	1629 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:	<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:	NM_001142936.1 , NP_001136408.1
RefSeq Size:	2523 bp
RefSeq ORF:	1632 bp
Locus ID:	221955
UniProt ID:	Q8NCG7
Cytogenetics:	7p22.1
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]