

Product datasheet for **MG224697**

Dagla (NM_198114) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dagla (NM_198114) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dagla
Synonyms:	Nsddr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224697 representing NM_198114 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGATCGTGGTGTCCGGCGGCGCTGGTCTGTGGGCAGCGATGACCTCGTCTGCCAGCTATCT
TCCTCTTCTGCTACACACCACCTGGTTTGAATCCTGTCTGTGGTGCTCTTCGGCTTGGTCTATAACCC
ACACGAGGCTGCTCCCTGAACCTGGTGGACCACGGCCGAGGCTACCTGGGCATCCTTCTGAGCTGTATG
ATTGCCGAAATGGCTATCATCTGGCTGAGCATGCGTGGGGCATCCTCTACACAGAACCCCGGGACTCCA
TGCAGTACGTGCTCTACGTGCGCCTGGCCATCTTGGTGATTGAGTTCATCTACGCTATCGTGGGCATCGT
CTGGCTCACACAGTACTACACCTCTGCAATGACCTCACTGCTAAGAATGTCACCCCTCGGAATGGTCGTC
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GGAGGGTCAGGCCACAGCTGGTCCCAGCTCTAAAAGTGTCTCTGTTGCACCCGGACAAAGGATTCC
CAGTCAGATGCCTACTCAGAAATCGCCTACCTCTTTGCTGAATTTTTCCGTGACCTCGACATCGTGCCCT
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GCTGGCCCATGTACCTGATGAGGAAGCCACCTGTGGTCTCTGCCAGCTGGCTCGTCTGCTCGTGCTG
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GCAATCGCTATCCGCCGTCACCTCTGGATGAGAACATGACTGCTGTAGATATTGTCTACACCTCTGTG
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TGTGGTAGCCACTCCTGGGAGCAGGCACAGCCCATCTCTCTTCTCTGCGCCCACTGACCCG



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ACCCTCAAGTGCTTCGTTACTCCCCACCAGGAGGCTGCTAAGTGAGGATGCTATGGAATACTCCAAAG
 AGTTTGTGACTGCTGTGGTTCTGGGCAAAGACCTTGCCCCAGGATTGGCCTTCCACAGCTGGAAGGTTT
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 TCTGCTGAACCTCCTCTGGCATCTCGCTCACCTCCTCCCACTCAGCTCCTCGGGGAGCTCATGG
 ACCTGACCCCCAGGGCCTCAGCAGCCAGGAGTGTCTGGCCACAGACAAGATCCGGACTTCCACCCCCAC
 AGGCCACGGGGCCAGCCCCACCAAGCAGGATGACCTGGTATCTCGGCACGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224697 representing NM_198114
 Red=Cloning site Green=Tags(s)

MPGIVVFRRRWSVGSDDLVLPAIFLFLHHTWFVILSVVLFGLVYNPHEACSLNLDHGRGYLGILLSCM
 IAEMAIWL SMRGGILYTEPRDSMQYVLYVRLAILVIEFIYAIVGIVWL TQYYTSCNDL TAKNVTLGMVV
 CNWVVILSVCITVLCVFDPTGRTFVKLRATKRRQRNLRTYNLRHRLEEQATSWSRRLKVFLLCCTRTKDS
 QSDAYSEIAYLFAEFFRDLDIVPSDIIAGLVLLRQRQRAKRNAVLDEANNDILAFLSGMPVTRNTKYLDL
 KNSHEMLRYKEVCYMYLFAAAYGWPMYLMRKPTCGLCQLARSCSCCLCPARPRFAPGVTIEEDNCCGN
 AIAIRRHFLDENMTAVDIVYTSCHDAVYETPFYVAVDHDKVVVIRGTLSPKDALTDLTGDAERLPVE
 GHRGTWLGHKGMVLSAEYIKKKLEQEMVLSQAFGRDLGRGTHYGLIVVGHSLGAGTAAILSFLLRPQYP
 TLKCFAYSPPGGLLSEDAMEYSKEFVTAVVLGKDLVPRIGLSQLEGFRRQLLDVLRSTKPKWRIIVGAT
 KCIPKSELPEQVEVTTLASTRLWTHPSDLTIALSASTPLYPPGRIIHVVHNHPAEQCCCEQEPTYFA
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 PTGPPLPTGLALELPATEHRNSSVRSKSQSEMSLEGFSEGRLLSPVAAAASAARQDPVELLLLSTQERLAA
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 QVLEFAEFIDSLFNLDKSSSFQDLYCMMVPEPSTSDYTEGPKSPSQEILLRAQFEPNLVPKPRLFAG
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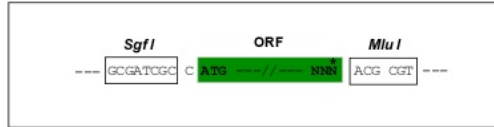
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



```

                                     Kozac
                                     Consensus
                                     Sgf I   Asc I
          EcoR I   BamH I Kpn I   RBS   ---
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

          Hind III   Nhe I   Rsr II   Mlu I   Not I   Xho I   GFP Tag
CAAGCTTAAGTCTAGCTAGCGGACCG   ACG CGT   ACG CGG   CCG   CTC   GAG   ATG   GAG   AGC   GAC   ---
                                     T   R   T   R   P   L   E   M   E   S   D   -   -   -

          ---   ---   ---
          ---   GAA   GAA   AGA   GTT   TAA   ACGGCGGCCCGGGAGCT
          -   -   E   E   R   V   Stop
  
```

ACCN: NM_198114

ORF Size: 3132 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_198114.2](#), [NP_932782.2](#)

RefSeq Size: 5652 bp

RefSeq ORF: 3135 bp

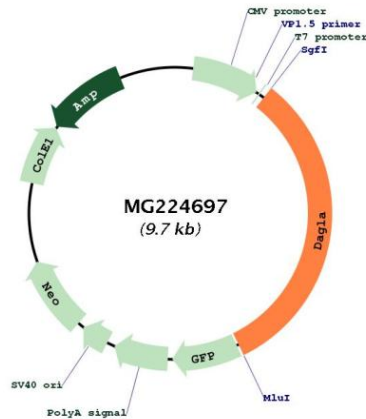
Locus ID: 269060

UniProt ID: [Q6WQJ1](#)

Cytogenetics: 19 A

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224697