

Product datasheet for **RN204355**

Dagla (NM_001005886) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dagla (NM_001005886) Rat Untagged Clone
Tag: Tag Free
Symbol: Dagla
Synonyms: Nsddr
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN204355 representing NM_001005886
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGCCCGGATCGTGGTGTCCGGCGGCGCTGGTCTGTGGGCAGCGATGACCTCGTGTGCCTGCTATCT
TCCTTCTCTGCTGCACACCACCTGGTTTGTGATCCTGTCTGTGGTGCTCTTCGGCTGGTCTACAACCC
GCACGAGGCTGCTCCCTGAACCTGGTGGACCAGGCCGAGGCTACCTGGGCATCCTTCTGAGCTGTATG
ATTGCTGAGATGGCTATCATTGGCTGAGCATGCGTGGGGTATCCTCTACACAGAACCCGGGACTCCA
TGCACTACGTGCTCTACGTGCGCCTGGCCATTTGGTGATCGAGTTCATCTACGCTATCGTGGGCATCGT
CTGGCTTACACAGTACTACACCTCCTGCAATGACCTCACTGCTAAGAATGTCACTCTCGGGATGGTCTGTC
TGCAACTGGTGGTCACTCCTCAGCGTCTGCATCACTGTCTCTGTGTCTTTGACCCCACTGGCCGACCT
TCGTCAAGCTGAGAGCCACCAAGAGGAGGCAGCGCAACCTGCGGACTTACAACCTGCGGCATCGTTAGA
GGAGGGTCAAGCCACAGCTGGTCCCGCGTCTAAAAGTGTCTCTGTGCACCCGGACAAGGATTCC
CAGTCAGATGCCTATTCAGAAATGCCTACCTCTTTGCTGAATTTTCCGTGACCTCGACATAGTCCCT
CCGACATCATTGCTGGCCTGGTGTGCTTAGGCAGCGGCAGCGCAAGCGCAATGCGGTGCTGGATGA
GGCAAACAATGACATCTTGGCTTTCTGTCTGGGATGCCAGTGACCAGAAACACCAAGTACCTCGACCTC
AAGAACTCGCACGAGATGCTACGCTACAAAGAAGTCTGCTACTACATGCTCTTTGCCCTCGCTGCCTATG
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TCTCTGCCCTGCACGCCCCGATTCGCCCTGGGGTCAACATTGAGGAAGACAACCTGTTGTGGTGAAT
GCAATTGCCATCCGCGTCACTTCTGGATGAGAACATGACTGCTGTAGACATCGTCTATACCTCCTGTC
ATGATGCGGTCTATGAACTCCCTTCTACGTAGCTGTGGACATGACAAGAAGAAGTGGTATCAGTAT
CCGGGGAACACTGTCCCAAGGATGCCCTGACTGACCTGACAGGAGATGCTGAGCGTCTCCCTGTGGAG
GGACACCGAGGCACCTGGTTGGGCCACAAGGGCATGGTACTCTCAGCTGAGTACATCAAGAAGAAGCTGG
AGCAGGAGATGGTCTGTCCAGGCCTTTGGGCGAGACCTGGGCCGTGGAACCAACACTATGGCCTGAT
TGTGGTAGGCCACTCCTTGGGAGCAGGCACAGCCGCAATCTCTCCTTCTCCTCGCCCTCAGTACCCG
ACCTCAAGTGCTTCGCTACTCCCTCCAGGAGGCTGCTGAGTGGATGCCATGGAGTACTCCAAG



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AGTTTGTGACTGCTGTGGTTCTGGGCAAAGACCTTGTCCAGGATCGGCCTTCCAGCTCGAAGGTTT
CCGCCGGCAGCTTCTGGATGTCCTGCAGCGAAGCACAAGCCAAATGGCGGATCATCGTGGGGGCCACC
AAGTGTATCCCCAAGTCGGAGCTGCCTGAGGATCAGGTGGAAGTGACTGCCTTGGCCAGCACACGGCTCT
GGACACACCCCAGTGATCTGACCATCGCCCTTTCAGCCAGCACCCCACTCTACCCACCTGGCCGTATCAT
CCATGTGGTCCATAAACCACCTGCTGAACAGTGTCTGTGTGAACAGGAAGAGCCACATACTTTGCC
ATCTGGGGTGACAACAAAGCCTTTAATGAGGTGATCATCTCACCAGCCATGCTCCATGAGCACCTGCCCT
ACGTGGTCATGGAGGGGCTCAATAAGGTGCTGGAGAATTACAACAAGGAAAGACAGCGCTGCTCTGTC
TGCAAAGGTGATGGTGGAGCCCACTGAGGTAGACCTCCTCTGAGCTCATCTTCCAGCAACAGCCGCTG
CCCACGGGGCCACCTCTGCCACTGGGCTGGCTCTGGAGCTGCCTGCCACAGAGCATCGAACAGCAGTG
TCAGGAGCAAGTCTCAGTCTGAGATGAGTCTAGAGGGCTTCTCTGAAGGACGGCTGTGTCCCCAGTGCC
TGCTGCCCTCAGCAGCCCGCAAGACCCTGTAGAGCTGTTGCTGTGTCCACCCAGGAACGACTGGCCGG
GAGCTGCAGTCCCGGGCCACCACTGGCCACTATGGAGAGCCTCTCAGACACTGAGTACTGTACAGCT
TTGACTCAGCCGTTCTCAGGTTCCGCAGCATCAGAGGCTCACCAGCCTCCATGCAGTACTGGAGCG
TGATGAGGGCCACCTGTTTTACATCGACCAGCCATTCCAGAGGAGAACCATCCCTCAGTCCCGCACA
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CGGGGGTGTGACTCCTGAGCGACCACCAAGTGCAGCCAATGACGAGGAGGAGGCAGCCGGTGGCAGTGA
GGTGGTGGGGTGGCCCCACGAGGAGAGCTGGCACTGCACAATGGGCGCCTGGGGGATTGCCCCAGCCCT
CAGGTGCTAGAATTTCGCTGAGTTCATTGACAGCCTCTTCAACCTGGACAGCAAGAGCAGCTCCTTCCAGG
ACCTGACTGCATGATGGTGCCTGAGAGCCCACTAGTACTACACAGAGGGCCCAAGTCCCCCAGCCA
ACAGGAAATCTTGCTTCGGGCTCAGTTTGGCCCAATCTGGTACCAAGCCCCCAGGCTCTTTCAGGA
TCTGCCGAACCTCCTCTGGCATCTCACTCTACCCTCCTCCACTCAGTCTCAGGGGAGCTCATGG
ACCTGACACCCACGGGCTCAGCAGCCAGGAGTGTCTGGCCACAGACAAGATCCGGACTTCCACCCCCAC
AGGCCATGGGGCCAGCCCTACCAAGCAGGATGACCTGGTATCTCAGCACGCTAG

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001005886

Insert Size:

3135 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:

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_001005886.1, NP_001005886.1

RefSeq Size:

5568 bp

RefSeq ORF:

3135 bp

Locus ID: 309207

UniProt ID: [Q5YLM1](#)

Cytogenetics: 1q43

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]