

Product datasheet for **RR204355**

Dagla (NM_001005886) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dagla (NM_001005886) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dagla
Synonyms: Nsddr
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204355 representing NM_001005886
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCCCGGATCGTGGTGTCCGGCGCGCTGGTCTGTGGGCAGCGATGACCTCGTGTGCCTGCTATCT
 TCCTTCTCTGTCACACCACCTGGTTTGTGATCCTGTCTGTGGTGTCTTCGGCTGGTCTACAACCC
 GCACGAGGCTGCTCCCTGAACCTGGTGGACCAGCGCCGAGGCTACCTGGGCATCCTTCTGAGCTGTATG
 ATTGCTGAGATGGCTATCATTGGCTGAGCATGCGTGGGGTATCCTCTACACAGAACCCGGGACTCCA
 TGCACTACGTGCTCTACGTGCGCCTGGCCATTTGGTGATCGAGTTCATCTACGCTATCGTGGGCATCGT
 CTGGCTTACACAGTACTACACCTCCTGCAATGACCTCACTGCTAAGAATGTCACTCTCGGGATGGTCTGTC
 TGCAACTGGTGGTCACTCCTCAGCGTCTGCATCACTGTCTCTGTGTCTTTGACCCCACTGGCCGCACT
 TCGTCAAGCTGAGAGCCACCAAGAGGAGGCAGCGCAACCTGCGGACTTACAACCTGCGGCATCGTTAGA
 GGAGGGTCAGGCCACCAGCTGGTCCCCTGCTAAAAGTGTCTCTGTGCACCCGGACAAGGATTCC
 CAGTCAGATGCCTATTCAGAAATGCTACCTCTTTGCTGAATTTTCCGTGACCTCGACATAGTGCCTC
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 ACCCTCAAGTGTTCGCTACTCCCTCCAGGAGGCTGCTGAGTGGATGCCATGGAGTACTCCAAG



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AGTTTGTGACTGCTGTGGTTCTGGGCAAAGACCTTGTCCAGGATCGGCCTTCCAGCTCGAAGGTTT
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 ACCTGACACCCACGGGCTCAGCAGCCAGGAGTGTCTGGCCACAGACAAGATCCGGACTTCCACCCCCAC
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ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204355 representing NM_001005886
 Red=Cloning site Green=Tags(s)

MPGIVVFRRRWSVGSDDLVLPAIFLFLHHTWFVILSVLFLVYNPHEACSLNLDHGRGYLGILLSCM
 IAEMAIWL SMRGGILYTEPRDSMQYVLYVRLAILVIEFIYAIVGIVWL TQYYTSCNDL TAKNVTLGMVV
 CNWVVILSVCITVLCVFDPTGRFVKLRATKRRQRNLRTYNLRHRLEEQATSWSRRLKVFLLCCTRTKDS
 QSDAYSEIAYLFAEFFRDLDIVPSDIIAGLVLLRQRQRAKRNAVLDEANNDILAFLSGMPVTRNTKYLDL
 KNSHEMLRYKEVCYMYL FALAAYGWPMYLMRKPTCGLCQLARSCSCCLCPARPRFAPGVTIEEDNCCGN
 AIAIRRHFLDENMTAVDIVYTSCHDAVYETPFYVAVDHDKVVVVISIRGTLSPKDALTDLTGDAERLPVE
 GHRGTWLGHKGMVLSAEYIKKKLEQEMVLSQAFGRDLGRGTHYGLIVVGHSLGAGTAAILSFLLRPQYP
 TLKCFAYSPPGGLLSEDA MEYSKEFVTAVVLGKDLVPRIGLSQLEGFRRQLLDVLRSTKPKWRIIVGAT
 KCIPKSELPEQVEVTALASTRLWTHPSDLTIALSASTPLYPPGRIIHVVHNHPAEQCCCEQEPTYFA
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 PTGPPLPTGLALELPATEHRNSSVRSKSQSEMSLEGFSEGRLLSPVAAA SAARQDPVELLLLSTQERLAA
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 ELLAADSLSKHSQDTQPLEAALGSGGVTPERPPSAANDEEEAAGGSEGGVAPRGELALHNGRLGDSPPS
 QVLEFAEFIDSLFNLDKSSSFQDLYCMMVPE SPTS DYTEGPKSPSQEILLRAQFEPNLVPKPRLFAG
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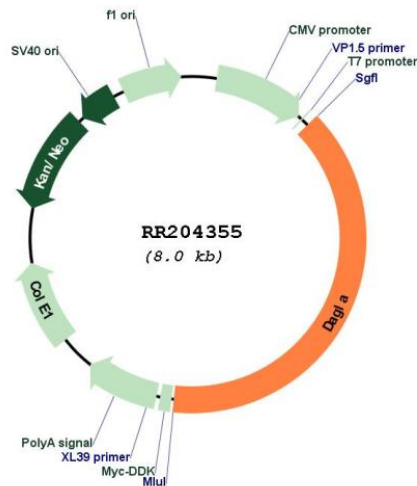
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001005886

ORF Size:

3132 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:	<u>NM_001005886.1</u> , <u>NP_001005886.1</u>
RefSeq Size:	5568 bp
RefSeq ORF:	3135 bp
Locus ID:	309207
UniProt ID:	<u>Q5YLM1</u>
Cytogenetics:	1q43
MW:	115.3 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 (By similarity).[UniProtKB/Swiss-Prot Function]